STANDARD COAXIAL CONNECTORS

N series

ISO 9001 APPROVED

RADIALL®

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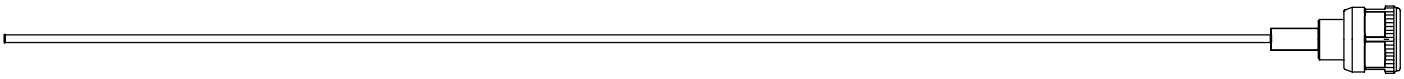

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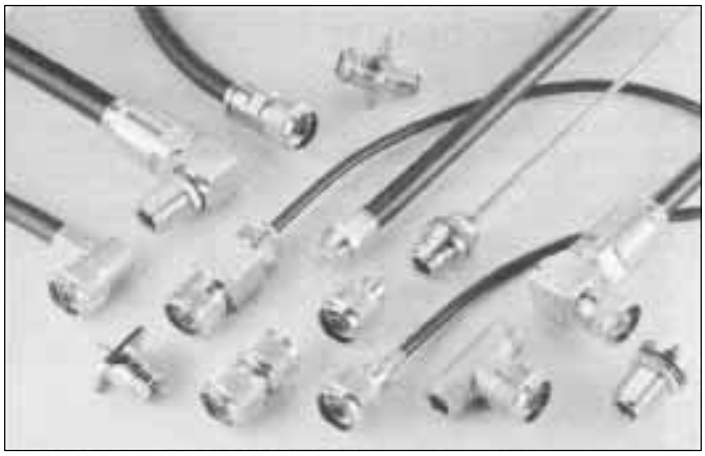
INTRODUCTION



The new Radiall N series has been developed using the latest advances in connector design. These connectors are easy-to-use, highly reliable, innovative and are designed to meet the needs of the Telecommunications market. The complete series features the following main news :

- extensive range, with optimized piece parts design, including full crimp models
- upgraded cross-knurled coupling nut allowing for better manual tightening
- standard plating finish : BBR (Bright Bronze Radiall) = high performance non magnetic alloy.

• A WIDE STANDARD RANGE

More than 75 new models : receptacles, cable connectors, COAXI-KIT models, and adapters (including Push-on interface)...
A proven technology for one of the most popular connector design in the world.

• MANY FULL CRIMP MODELS

A fast and reliable attachment system that can be easily achieved in a field environment, with minimum easy-to-use tooling (including models for 2 and 2.6 mm dia cables). All our full crimp connectors are single piece body.

• LOW INTERMODULATION CONNECTORS

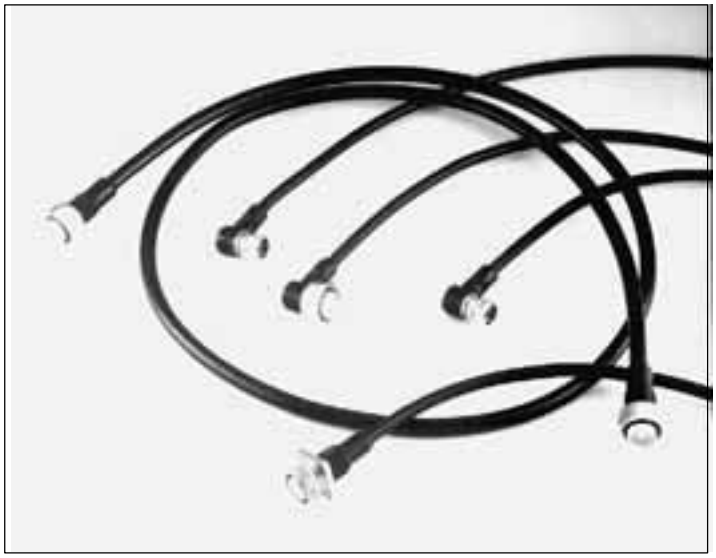
Radiall maintains extensive knowledge in this field and has developed N series connectors that are specially designed for base stations of radiotelephone digital cellular networks where the elimination of intermodulation products is of the utmost importance :

- optimized for 900 - 1800 MHz bands (and able to work up to 11 GHz like the standard models)
- IMP_3 performance = -110 dBm (- 153 dBc).
- new models for corrugated and low loss flexible cables
- high performance non magnetic materials and platings (silver and BBR)
- new 6 flats coupling nut (18 mm), allowing high coupling torque (170 Ncm) thanks to torque wrench.
- non slotted outer contact.

INTRODUCTION

• VERY LOW INTERMODULATION CABLE ASSEMBLIES

For severe intermodulation conditions, we propose a range of low intermodulation cable assemblies $IMP_3 \leq -125$ dBm *(see p. 40).* For IM sensitive applications.



• COMPLETE COAXI-KIT RANGE

(see p. 25)

This new product family offers a complete choice of heads and tips. The combination of a reduced number of P/N allows to obtain :

- either straight or right-angle plugs (6 flat nut), flange and bulkhead jacks
- either crimp or clamp attachment types
- For flexible cable 5 S, 5 D, 10 S, 11 D
- For corrugated cable 1/4 “, 3/8 “,1/2 “

• CUSTOM MODELS

Designed to fulfil customer requirements according to the N series standard. Radiall fully masterizes the complete designing of custom connectors
(example shown : straight plug flange type).

New Radiall N series benefits from a complete line of accessories, such as : adapters (in-series and between series), tees, caps and easy-to-use complete range of tooling.

Radiall also proposes a complete range of **MICROWAVE COMPONENTS** : TERMINATIONS, ATTENUATORS, COUPLERS, etc. - all designed around the N and 7/16 series interface.

For further details, please read our
- INTERMODULATION APPLICATION GUIDE (***D1 032 DE***)
- BBR PLATING APPLICATION GUIDE (***D1 030 DE***)

IMPORTANT : *the **50** Ω and the **75** Ω connectors are **NOT INTERMATEABLE, under pain of interface destruction***

GENERAL

50 Ω	**DC - 11 GHz**
75 Ω	**DC - 1.5 GHz**

GENERAL

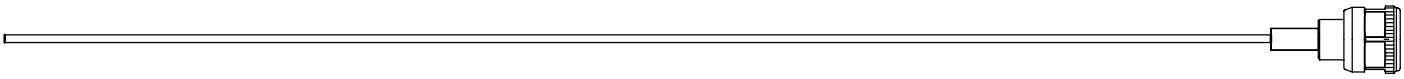
- Standard coaxial connectors
- Screw-on coupling
- High durability and proven strength
- High power rating
- Excellent RF performance
- 2 ranges : N 50 Ω
  N 75 Ω

APPLICABLE STANDARDS

- MIL-C-39012 / MIL STD 348-304
- CEI 169-16
- CECC 22210
- NF-C-93566

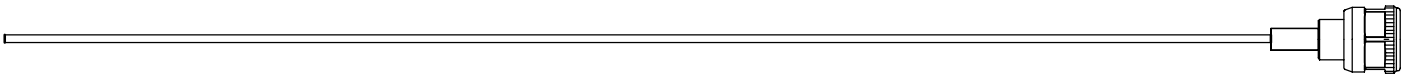
APPLICATIONS

- Wireless communications
- Civil and military radio-telecommunication equipment
- Countermeasure
- Navy equipment
- Videocommunication
- Computer network
- Industrial network



CABLE CONNECTORS *R161 = 50Ω / R162 = 75Ω*

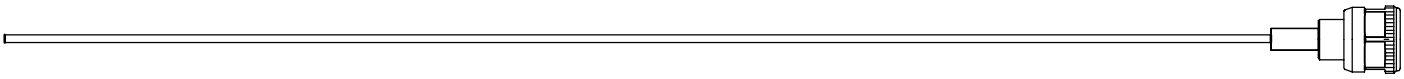
model	straight plug			intermod straight plug	right-angle plug		intermod right-angle plug	straight jack		
cable	full crimp	clamp/EZ FIT	solder	crimp or clamp/EZ FIT	crimp and full crimp	clamp	crimp or clamp/EZ FIT	full crimp	clamp	solder
2/50/S (RG 178)	**R161 071 000** (page 15)									
2/50/D (study)	**R161 071 000** (page 15)									
2.6/50/S (RG 316)	**R161 072 000** (page 15)	**R161 004 000** (page 15)			**R161 181 000** (page 17)					
2.6/50/D (RD 316)	**R161 072 000** (page 15)				**R161 181 300** (page 17)					
5/50/S (RG 58)	**R161 082 000** (page 15)	**R161 006 000** **R161 010 000** (page 15)			**R161 182 000** (page 17)	**R161 157 000** (page 17)		**R161 237 000** (page 18)	**R161 206 000** (page 19)	
5/50/S (LMR200)	**R161 082 200** (page 15)				**R161 182 200** (page 17)					
5/50/D (RG 142)	**R161 083 000** (page 15)	**R161 006 000** **R161 010 000** (page 15)		**R161 083 137** (page 15)	**R161 183 000** (page 17)	**R161 157 000** (page 17)	**R161 183 137** (page 17)	**R161 238 000** (page 18)	**R161 206 000** (page 19)	
6/75/S (RG 59)	**R162 084 000** (page 44)	**R162 012 000** (page 44)			**R162 184 000** (page 44)	**R162 162 000** (page 45)		**R162 239 000** (page 45)	**R162 212 000** (page 45)	
8/75/D (RG 6)		**R162 013 000** (page 44)							**R162 213 000** (page 45)	
10/50/S (RG 213)	**R161 075 000** (page 15)	**R161 020 000** **R161 022 000** (page 15)			**R161 184 000** (page 17)	**R161 168 000** (page 17)		**R161 241 000** (page 18)	**R161 220 000** (page 19)	
10/75/S (RG 11)	**R162 075 000** (page 44)	**R162 017 000** (page 44)			**R162 185 000** (page 44)	**R162 168 000** (page 45)		**R162 241 000** (page 45)	**R162 217 000** (page 45)	
10.3/50/S (ETHERNET)	**R161 076 000** (page 15)				**R161 185 000** (page 17)					
10.3/50/S (LMR400)	**R161 075 060** (page 15)				**R161 184 036** (page 17)					
11/50/D (RG 214)	**R161 088 000** (page 15)	**R161 020 000** **R161 022 000** (page 15)		**R161 088 137** (page 15)	**R161 186 000** **R161 187 000** (page 17)	**R161 168 000** (page 17)	**R161 186 137** (page 17)	**R161 243 000** (page 18)	**R161 220 000** (page 19)	
11/75/D (RG 216)	**R162 088 000** (page 44)	**R162 017 000** (page 44)			**R162 187 000** (page 44)	**R162 168 000** (page 45)		**R162 243 000** (page 45)	**R162 217 000** (page 45)	
15.2/50/S (LMR 600)	**R161 079 220** (page 15)				**R161 188 200** (page 17)					
.085" (RG 405)			**R161 050 xxx** (page 16)							
.141" (RG 402)			**R161 051 000** **R161 052 xxx** (page 16)						**R161 227 0x0** (page 20)	**R161 226 020** (page 20)
.250" (RG 401)			**R161 054 000** **R161 053 xxx** (page 16)							
1/4" super-flexible corrugated				**R161 036 007** (page 16)			**R161 177 007** (page 18)			
3/8" super-flexible corrugated				**R161 036 207** (page 16)			**R161 177 207** (page 18)			
1/2"flexible corrugated		**R161 091 020W** (page 16)							**R161 230 020W** (page 19)	
1/2" super-flexible corrugated				**R161 037 020** (page 16)			**R161 177 137** (page 18)			
7/8"flexible corrugated		**R161 033 020W** (page 16)							**R161 231 020W** (page 19)	



CABLE CONNECTORS *R161 = 50Ω / R162 = 75Ω*

model	**intermod straight jack**	**square flange straight jack**			**intermod square flange straight jack**	**bulkhead straight jack (panel sealed)**			**intermod bulk-head straight jack**
cable	clamp/EZ FIT	full crimp	clamp	solder	clamp/EZ FIT	full crimp	clamp	solder	clamp/EZ FIT
2/50/S (RG 178)		**R161 281 000** (page 20)				**R161 309 x00** (page 22)			
2/50/D (study)		**R161 281 000** (page 20)				**R161 309 x00** (page 22)			
2.6/50/S (RG 316)		**R161 281 300** (page 20)	**R161 252 000** (page 21)			**R161 311 x00** (page 22)	**R161 321 000** **R161 322 000** (page 23)		
2.6/50/D (RD 316)		**R161 281 300** (page 20)	**R161 252 000** (page 21)			**R161 311 x00** (page 22)	**R161 321 000** **R161 322 000** (page 23)		
5/50/S (RG 58)		**R161 282 000** (page 20)	**R161 256 000** (page 21)			**R161 329 000** (page 22)	**R161 325 000** (page 23)		
5/50/S (LMR200)						**R161 329 130** (page 22)			
5/50/D (RG 142)		**R161 283 000** (page 20)	**R161 256 000** (page 21)			**R161 329 200** (page 22)	**R161 325 000** (page 23)		
6/75/S (RG 59)			**R162 262 000** (page 46)			**R162 335 000** (page 46)	**R162 328 000** (page 46)		
10/50/S (RG 213)		**R161 286 000** (page 20)	**R161 270 000** (page 21)			**R161 331 000** (page 22)	**R161 332 000** (page 23)		
10/75/S (RG 11)			**R162 267 000** (page 46)			**R162 336 000** (page 46)	**R162 332 000** (page 46)		
10.3/50/S (LMR400)						**R161 331 060** (page 22)			
11/50/D (RG 214)		**R161 286 200** (page 20)	**R161 270 000** (page 21)			**R161 331 200** (page 22)	**R161 332 000** (page 23)		
11/75/D (RG 216)			**R162 267 000** (page 46)			**R162 339 000** (page 46)	**R162 332 000** (page 46)		
15.2/50/S (LMR 600)						**R161 331 400** (page 22)			
.085“ (RG 405)				**R161 276 300** (page 22)				**R161 335 200** (page 24)	
.141“ (RG 402)			**R161 277 0x0** (page 22)	**R161 277 300** (page 22)			**R161 323 0x0** **R161 336 200** (page 24)	**R161 323 200** **R161 336 000** (page 24)	
.250“ (RG 401)				**R161 278 300** (page 22)				**R161 337 200** (page 24)	
1/4” super-flexible corrugated	**R161 232 007** (page 19)				**R161 279 007** (page 21)				**R161 341 007** (page 23)
3/8” super-flexible corrugated	**R161 232 207** (page 19)				**R161 279 207** (page 21)				**R161 341 207** (page 23)
1/2” super-flexible corrugated	**R161 232 407** (page 19)				**R161 279 407** (page 21)				**R161 341 407** (page 23)

FINDER GUIDE



COAXI-KIT *Straight or right angle connectors (see page 25-26)*

The possibility to make straight or right angle connector with the same piece parts (head and tip)

MODEL	tip only	
cable	crimp	clamp
5 / **50** / **S** (RG 58)	**R280 651 030**	**R280 008 030**
5 / **50** / **D** (RG 142)	**R280 651 230**	**R280 008 030**
10 / **50** / **S** (RG 213)	**R280 663 030**	**R280 017 030**
11 / **50** / **D** (RG 214)	**R280 664 030**	**R280 017 030**
1/4" superflexible corrugated		**R280 021 200**
3/8" superflexible corrugated		**R280 023 200**
1/2" superflexible corrugated		**R280 022 200**

HEAD	P/N
plug	**R161 901 120**
square flange jack	**R161 912 120**
bulkhead jack	**R161 913 120**

PANEL RECEPTACLES *R161 = 50Ω / R162 = 75Ω*

model	straight female flange						right-angle female flange	straight male flange		straight female bulkhead (panel sealed or hermetical)	
	12.7 mm		17.5 mm		25.4 mm	32 m	25.4 mm	12.7 mm	25.4 mm		
back	square	2 holes	square	2 holes	square	square	square	square	square	front mount	rear mount
contact with solder pot	**R161 409 500** (page 27)		**R161 410 000** (page 27)		**R161 404 xxx** **R161 412 020** **R161 430 020** (page 28) **R162 403 000** (page 47)	**R161 422 120** (page 28)	**R161 653 000** (page 29)		**R161 440 x20** **R161 441 000** (page 28)	**R161 570 000** **R161 625 000** (page 29) **R162 570 000** (page 47)	**R161 585 200** **R161 606 000** (page 29)
extended dielectric contact	**R161 410 520** (page 27)				**R161 416 130** (page 28)			**R161 438 400** (page 27)	**R161 441 400** (page 28)		
flat tab contact	**R161 411 500** (page 27)	**R161 471 500** (page 27)		**R161 461 x00** (page 27)	**R161 419 020** (page 28)			**R161 438 200** (page 27)	**R161 444 200** (page 28)		
slotted contact	**R161 419 500** (page 27)	**R161 472 500** (page 27)			**R161 419 300** (page 28)				**R161 444 037** (page 28)		
removable contact (universal receptacle)	**R161 418 500** (page 27)		**R161 418 000** (page 27)								

IN-SERIES ADAPTERS *R161 = 50Ω / R162 = 75Ω*

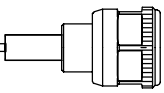
model	straight	straight flange	straight bulkhead	straight slide-on	right-angle	tee
M - M	**R161 703 000** (page 30) **R162 703 000** (page 47)					
F - F	**R161 705 000** (page 30) **R162 705 000** (page 47)	**R161 715 000** (page 30)	**R161 730 000** **R161 753 000** (page 30)			
M - F				**R161 791 5x0** (page 30)	**R161 771 000** (page 30)	
F - F / M						**R161 780 000** (page 30)
F - F / F						**R161 782 000** (page 30)

CAPS

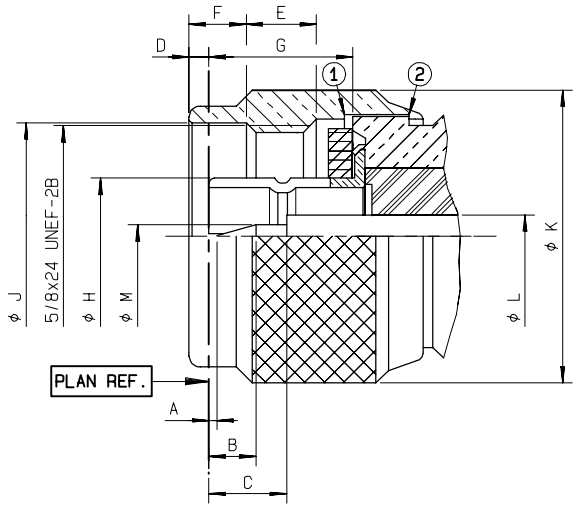
model	cord	chain	chain short- circuit
M	**R161 804 000** **R161 805 410** (page 31)	**R161 853 000** (page 31)	**R161 862 000** (page 31)
F	**R161 844 000** (page 31)	**R161 841 000** (page 31)	

ATTENTION *! This guide is intended as an information and does not include all N SERIES P/N.*

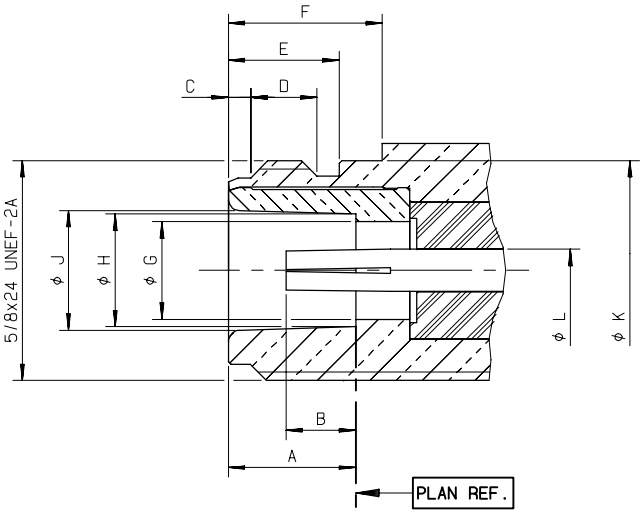
INTERFACE



PLUG



JACK



REP	MINI	MAXI
A	0.13 (.005)	1.03 (.13)
B	2.80 (.110)	3.56 (.140)
C	5.33 (.2098)	5.83 (.2295)
D	1 (.016)	2 (.066)
E	4.54 (.179)	5.39 (.212)
F	4.05 (.1594)	4.20 (.1653)
G	10.23 (.403)	10.43 (.4106)
ØH	8.27 (.3256)	8.37 (.3295)
ØJ	16.1 (.6339)	16.2 (.6378)
ØK	20.9 (.8228)	21 (.8268)
ØL	3.01 (.1185)	3.05 (.120)
ØM	1.63 (.0642)	1.67 (.0657)

REP	MINI	MAXI
A	9.05 (.356)	9.19 (.362)
B	4.75 (.187)	5.25 (.2067)
C	1.20 (.047)	1.95 (.077)
D	4.4 (.173)	5.1 (.201)
E	6.8 (.268)	9 (.354)
F	10.9 (.429)	11.2 (.441)
ØG	6.98 (.2748)	7.02 (.2764)
ØH	8.03 (.316)	8.13 (.320)
ØJ	8.53 (.336)	8.73 (.3437)
ØK	15.65 (.616)	15.85 (.624)
ØL	3.01 (.1185)	3.05 (.120)

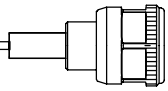
* statistics dimensions : .0539 ± .0055 (.0594 max)/(1.37 ± 0.14)(1.51 max)
1) Coupling nut against on datum 1
2) Coupling nut against on datum 2

All dimensions are given in mm (inch)

IMPORTANT : the **50** Ω and the **75** Ω connectors are **NOT INTERMATEABLE, under pain of interface destruction**

N 50 Ω

CHARACTERISTICS



TEST/CHARACTERISTICS	STANDARD REFERENCE	VALUES/REMARKS

ELECTRICAL CHARACTERISTICS

Impedance			50 Ω			
Frequency range			DC-11 GHz DC - 2 GHz ***for COAXI-KITS***			
V.S.W.R. (typ.)	Frequency		1 GHz	2.5 GHz	5 GHz	11 GHz
Straight models cable group :	.085"		1.03	1.03	1.05	1.08
	.141"		1.03	1.05	1.05	1.08
	.250"		1.03	1.03	1.05	1.07
	5 S + 5 D		1.05	1.06	1.1	1.16
	10 S + 11 D		1.04	1.05	1.09	1.2
Right angle models	5 S + D		1.04	1.05	1.18	
	10 S + 11 D		1.04	1.1	1.20	
Intermodulation product (IMP $_3$) *Standard connectors* *Intermodulation connectors* *Home made intermodulation cable assemblies*			- 90 dBm typ. (-133 dBc typ. / 20W) - 110 dBm typ. (- 153 dBc typ / 20 W) - 125 dBm typ. (- 165 dBc typ. / 20W)			
Insertion loss	*straight connector* *right-angle connector*	MIL	< 0.15 dB max at 10 GHz $\sim < 0.05\sqrt{F(GHz)}$ < 0.15 dB max at 10 GHz $\sim < 0.1\ \sqrt{F(GHz)}$			
RF Leakage		MIL	- 90 dB min from 2 to 3 GHz (interface)			
Insulation resistance		MIL	5000 MΩ min			
Contact resistance		MIL	Initial		After tests	
	center contact		1 mΩ		1.5 mΩ	
	outer contact		0.2 mΩ		-	
Working voltage in VRMS		CECC	850 *cable 5 / 50* (250 *cable 5 / 50)* 850 *cable LMR200* (250 *cable LMR200)* 350 *cable .085" / .141"* (250 *cable .085" / .141")*		1400 *cable 10+11/50* (400 *cable 10+11/50)* 1400 *cable LMR 400/600* (400 *cable LMR 400/600)* 1400 *cable .250* (400 *cable .250)*	
at sea level *(at 70, 000 feet)*						
Dielectric withstanding voltage in VRMS		CECC	1500 *cable 5 / 50* (350 *cable 5 / 50)* 1500 *cable LMR200* (350 *cable LMR200)* 1000 *cable .085" / .141"* (350 *cable .085 / .141")*		2500 *cable 10/50* (600 *cable 10/50)* 2500 *cable LMR400/600* (600 *cable LMR400/600)* 2500 *cable .250* (600 *cable .250)*	
at sea level *(at 70, 000 feet)*						
RF testing voltage	*sea level*	CECC	1500 VRMS (5 MHz sine wave)			

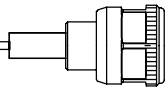
MECHANICAL CHARACTERISTICS

Durability		CECC	500 matings
Force to engage and disengage		CECC	6.6 Ncm max (.58 Inch-pounds)
Recommended coupling nut torque			40 to 60 Ncm (manual) 130 Ncm (11.45 inch pounds) (with pliers R 282 202 000) 170 Ncm (14.96 inch pounds) (with torque wrench R 282 303 020)
Proof torque		CECC	170 Ncm (14.96 inch pounds)
Coupling nut retention force		CECC	450 N (101.25 Lbs)
Cable retention force	*cable 5/50*	CECC	150 N (33.75 Lbs) *Single braid* 200 N (48 Lbs) *Double braid*
	cable 10/50		300 N (67.5 Lbs)
	cable 11/50		400 N (90 Lbs)
	cable .141"		270 N (60.75 Lbs)
Center contact retention force	*axial*	MIL	27 N (6.08 Lbs) *cables $< Ø$ 8 mm* 68 N (15.30 Lbs) *cables $> Ø$ 8 mm*

ENVIRONMENTAL CHARACTERISTICS

Temperature range	*standard models*	CECC	- 55°C + 155°C
	semi-rigid cables		- 55°C + 105°C
Thermo cycling test		CECC	- 55°C / + 155°C / 21 j.
Thermal shock		CECC	- 40°C / + 155°C or - 40°C / + 85 °C - 5 cycles
Hight temperature test		CECC	125°C / 1000 H
Corrosion salt spray		CECC	48 H

CHARACTERISTICS



ENVIRONMENTAL CHARACTERISTICS

Vibration		CECC	Sinus 10 g / 10 - 500 Hz
Shock		CECC	1/2 Sinus 50g / 11 ms
Moisture resistance	*clamp type* *crimp type*	IEC 529	IP 67 IP 65 (with heatshrink sleeve)
Hermetic test		CECC	10-5 bar. cm^3/s
Leakage		CECC	Differential pressure 100 to 110 KPa : 1 bar cm^3 / H

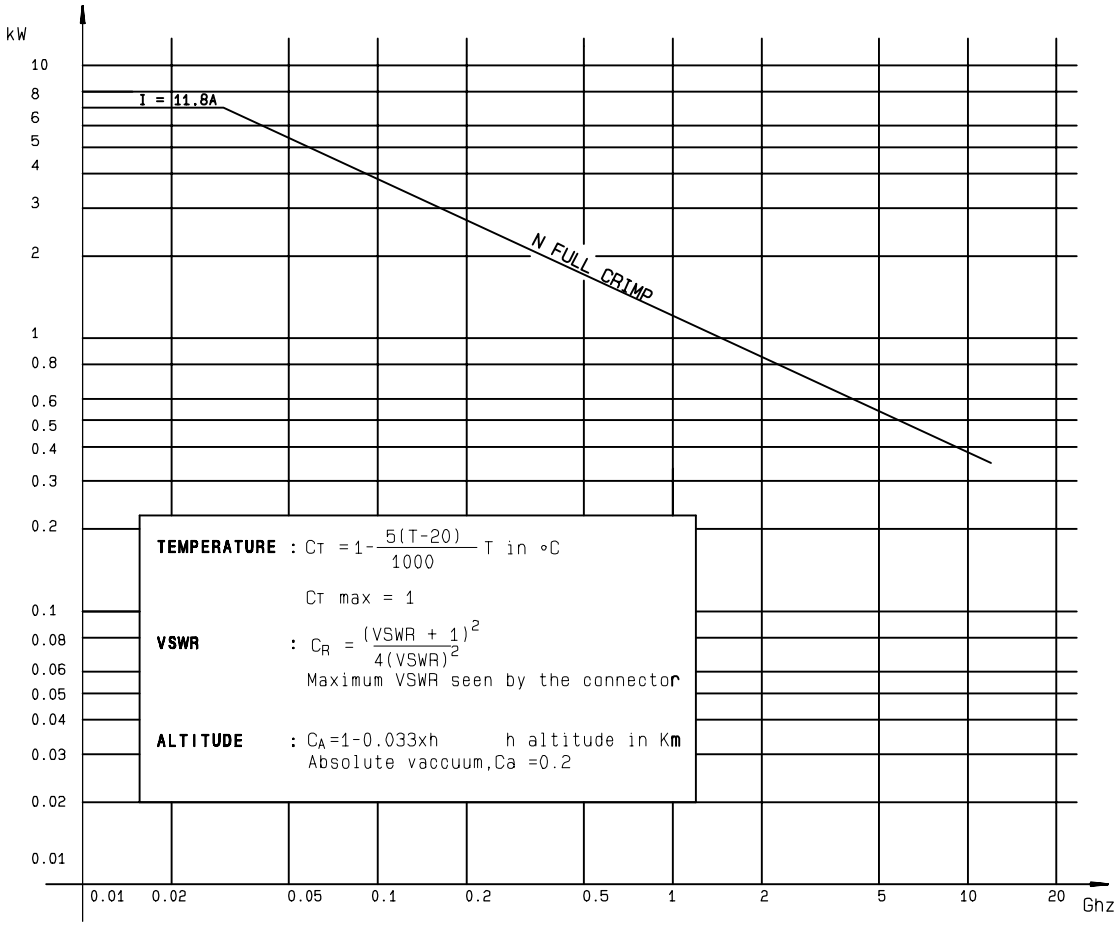
MATERIALS

Body / nut / center male contact / outer contact		brass
Center female contact		Treated beryllium copper
Ferrule		Brass
Insulator		PTFE
Gasket		Silicon elastomer

PLATINGS

			Standard	Intermodulation models + COAXI-KIT
Body	*crimp + clamp type* *solder type*		BBR Gold	Silver + BBR Silver
Coupling nut / Design			BBR / cross knurled	BBR / hex.
Center contacts			Gold	Silver
Outer contacts / Design			BBR / slotted	Silver + BBR / non slotted

POWER RANGE



Some connectors may feature different performance depending on the application they have been designed for, or according to the applicable cable.

STRAIGHT PLUGS, FULL CRIMP TYPE, FOR FLEXIBLE CABLES (single piece body)

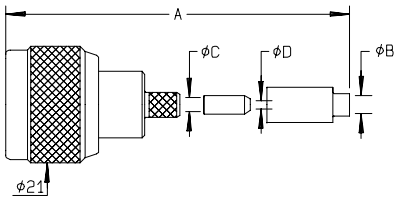


Fig. 1

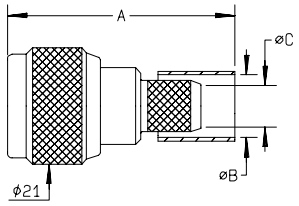


Fig. 2

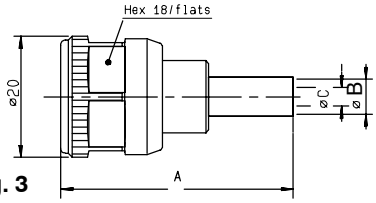


Fig. 3

cable group	part number	fig.	dimensions *(mm)*				captured center contact	mounting	note
			A	B	C	D			
2 / 50 / S + D	**R161 071 000**	1	39.7	2.35	3.38	1	YES	M09	
2.6 / 50 / S+D	**R161 072 000**	1	39.7	3.25	3.38	1.63	YES	M09	
5 / 50 / S	**R161 082 000**	2	38.5	5.41	3.11		YES	M12	
5 / 50 / S	**R161 082 200**								LMR 200 cable
5 / 50 / D	**R161 083 000**	2	38.5	5.8	3.11		YES	M12	
5 / 50 / D	**R161 083 137**	3	38.5	5.8	3.11		YES	M24	For intermodulation application / tool*
10 / 50 / S	**R161 075 000**	2	40.2	11.05	7.46		YES	M10	
10.3 / 50 / S	**R161 075 060**	2	40.2	11.05	7.46		YES	M10	LMR 400 cable
10.3 / 50 / D	**R161 076 000**	2	40.2	11.4	6.4		YES	M10	ETHERNET cable
11 / 50 / D	**R161 088 000**	2	40.2	11.4	7.46		YES	M10	
11 / 50 / D	**R161 088 137**	3						M24	For intermodulation application / tool*
15.2 / 50 / S	**R161 079 220**	2	49	15.87	11.96		YES	M11	LMR 600 cable / solder type center contact

* *Torque wrench : R282 303 020 (page 58)*

STRAIGHT PLUGS, CLAMP TYPE, FOR FLEXIBLE CABLES

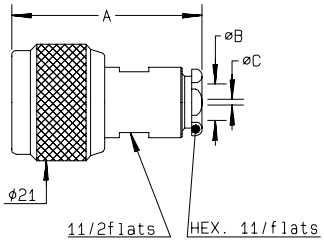


Fig. 1

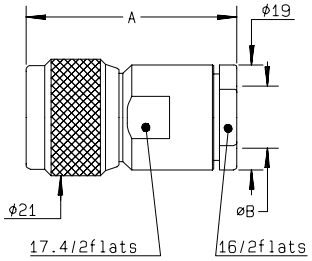
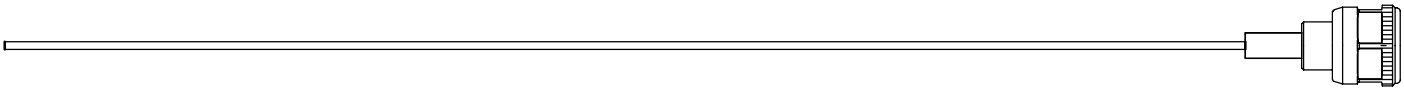


Fig. 2

cable group	part number	fig.	dimensions *(mm)*			captured center contact	mounting
			A	B	C		
2.6 / 50 / S + D	**R161 004 000**	1	33.9	3.1	1.7	YES	M01
5 / 50 / S + D	**R161 006 000**	1	34.4	5.6		NO	M02
5 / 50 / S + D	**R161 010 000**	1	34.9	5.6		YES	M03
10 + 11 / 50 / S + D	**R161 020 000**	2	38.1	11.2		NO	M04
10 + 11 / 50 / S + D	**R161 022 000**	2	38.9	11.2		YES	M05

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.



STRAIGHT PLUGS, EZ FIT TYPE, FOR CORRUGATED CABLES

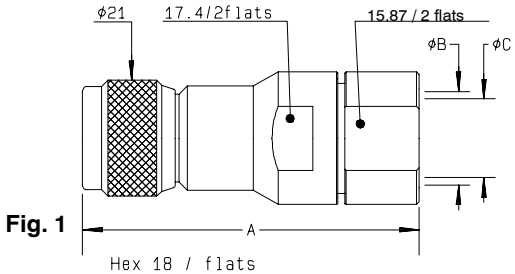


Fig. 1

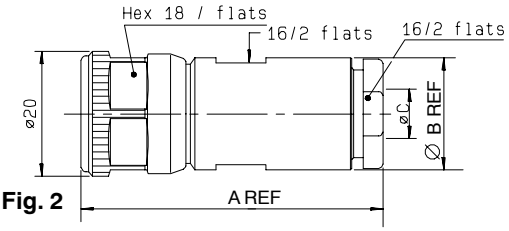


Fig. 2

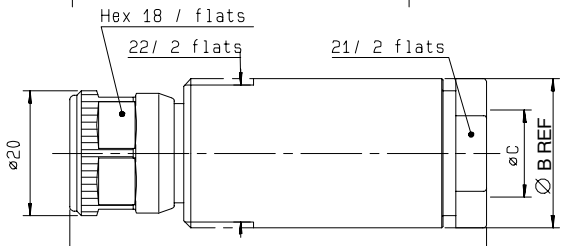


Fig. 3

cable group	part number	fig.	dimensions *(mm)*			captured center contact	mounting
			A	B	C		
1/4" superflexible corrugated	**R161 036 007**	2	52.3	18	7.9	YES	M22
3/8" superflexible corrugated	**R161 036 207**	3	65	24	11	YES	M22
1/2" flexible corrugated	**R161 091 020W**	not shown				YES	
1/2" superflexible corrugated	**R161 037 020**	3	65	24	14	YES	M22
7/8" flexible corrugated	**R161 033 020W**	not shown				YES	

* *Torque wrench : R282 303 020 (page 58)*

STRAIGHT PLUGS, FOR SEMI RIGID CABLES

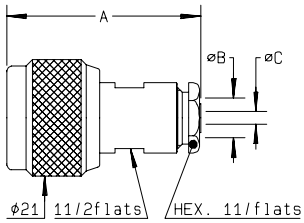


Fig. 1

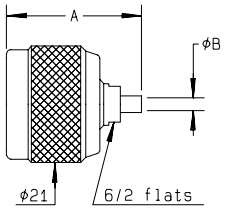


Fig. 2

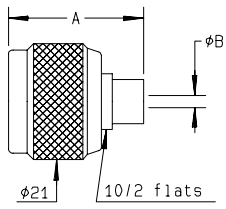


Fig. 3

cable group	part number	fig.	dimensions *(mm)*			captured center contact	mounting	note
			A	B	C			
.085"	**R161 050 000**	1	35	5.6	2.25	NO	M06	Clamp type
.085"	**R161 050 020●**	1	35	5.6	2.25	YES	M06	Clamp type
.085"	**R161 050 300**	2	24.4	2.25		NO	M07	Solder type
.141"	**R161 051 000**	2	24.4	3.65		NO	M07	Solder type
.141"	**R161 052 000**	1	35	5.6	3.65	NO	M06	Clamp type
.141"	**R161 052 020●**	1	35	5.6	3.65	YES	M06	Clamp type
.250"	**R161 053 000**	1	35.4	6.6		NO	M08	Clamp type
.250"	**R161 053 020●**	1	35.4	6.6		YES	M08	Clamp type
.250"	**R161 054 000**	3	24.4	6.45		NO	M07	Solder type

● Upon request

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

RIGHT ANGLE PLUGS, CRIMP TYPE, FOR FLEXIBLE CABLES

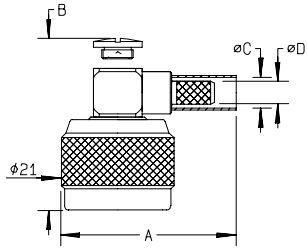


Fig. 1

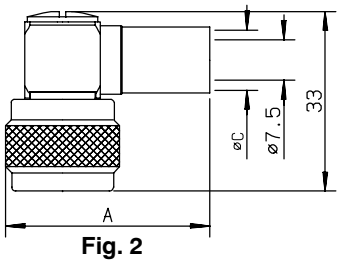


Fig. 2

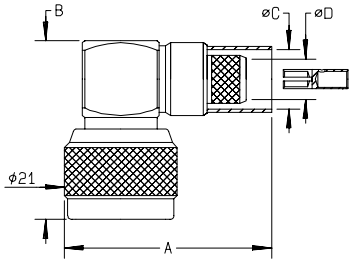


Fig. 3

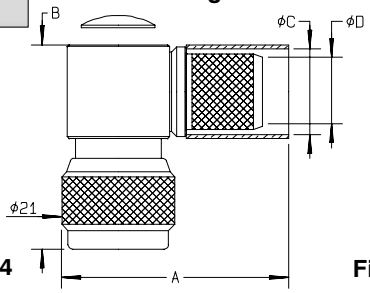


Fig. 4

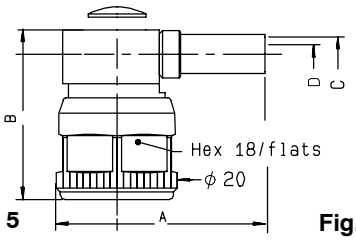


Fig. 5

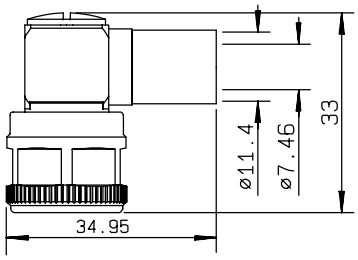


Fig. 6

cable group	part number	fig.	dimensions *(mm)*				captured center contact	mounting	note
			A	B	C	D			
2.6 / 50 / S	**R161 181 000**	1	29.5	28	3.25	1.7	YES	M18	
2.6 / 50 / D	**R161 181 300**	1	29.5	28	3.5	1.7	YES	M18	
5 / 50 / S	**R161 182 000**	1	34.5	28	5.41	3.1	YES	M18	
5 / 50 / S	**R161 182 200**								LMR 200 cable
5 / 50 / D	**R161 183 000**	1	34.5	28	5.8	3.1	YES	M18	
5 / 50 / D	**R161 183 137**	5	35	28.3	5.8	3.1	YES	M25	For intermodulation application / tool*
10 / 50 / S	**R161 184 000**	2	37.5		11.05		YES	M18	
10 / 50 / S	**R161 185 000**	3	42.4	33.2	11.05	7.46	YES	M20	Full crimp
10.3 / 50 / S	**R161 184 036**	2	46.25		11.05		YES	M18	LMR 400 cable
11 / 50 / D	**R161 186 000**	2	37.6		11.4		YES	M18	
11 / 50 / D	**R161 187 000**	3	42.4	33.2	11.4	7.46	YES	M20	Full crimp
11 / 50 / D	**R161 186 137**	6					YES	M18	For intermodulation application / tool*
15.2 / 50 / S	**R161 188 200**	4	42.2	39.5	15.88	11.96	YES	M19	LMR 600 cable

* *Torque wrench : R282 303 020 (page 58)*

RIGHT ANGLE PLUGS, CLAMP TYPE, FOR FLEXIBLE CABLES

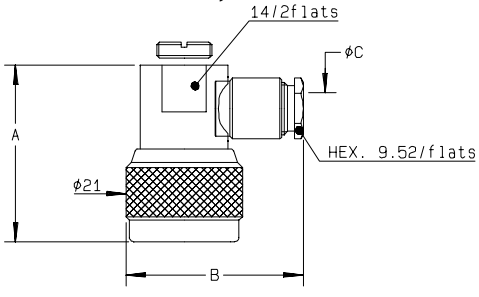


Fig. 1

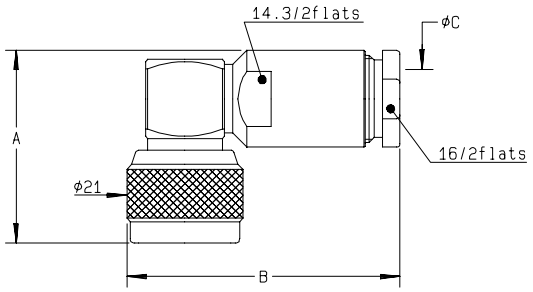


Fig. 2

cable group	part number	fig.	dimensions *(mm)*			captured center contact	mounting
			A	B	C		
5 / 50 / S + D	**R161 157 000**	1	32	32	5.6	YES	M15
10 + 11 / 50 / S + D	**R161 168 000**	2	34.85	49.4	11.2	YES	M16

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

RIGHT ANGLE PLUGS, EZ FIT TYPE, FOR CORRUGATED CABLES

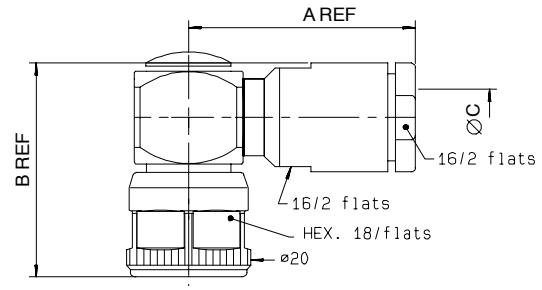


Fig. 1

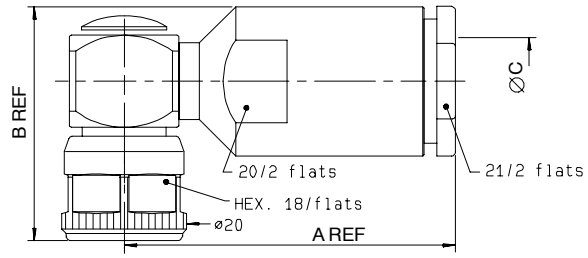


Fig. 2

cable group	part number	fig.	dimensions *(mm)*			captured center contact	mounting
			A	B	C		
1/4" superflexible corrugated	**R161 177 007**	1	36.4	34.4	7.85	YES	M23
3/8" superflexible corrugated	**R161 177 207**	2	54	38.3	11	YES	M23
1/2" superflexible corrugated	**R161 177 137**	2	54	38.3	14	YES	M23

* *Torque wrench : R282 303 020 (page 58)*

STRAIGHT JACKS, FULL CRIMP TYPE, FOR FLEXIBLE CABLES (single piece body)

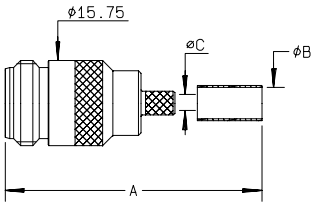


Fig. 1

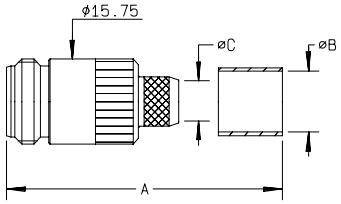


Fig. 2

cable group	part number	fig.	dimensions *(mm)*			captured center contact	mounting
			A	B	C		
5 / 50 / S	**R161 237 000**	1	39.3	5.41	3.11	YES	M12
5 / 50 / D	**R161 238 000**	1	39.3	5.8	3.11	YES	M12
10 / 50 / S	**R161 241 000**	2	40.6	11.05	7.46	YES	M10
11 / 50 / D	**R161 243 000**	2	40.6	11.4	7.46	YES	M10

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

STRAIGHT JACKS, CLAMP TYPE, FOR FLEXIBLE CABLES

Fig. 1

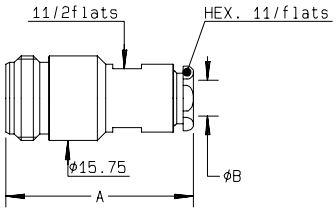


Fig. 2

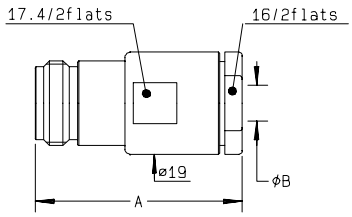


Fig. 1

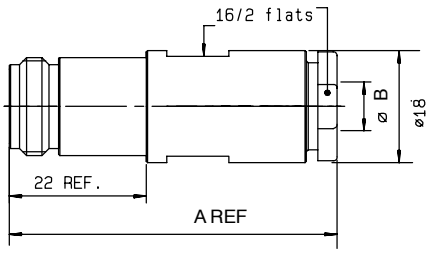
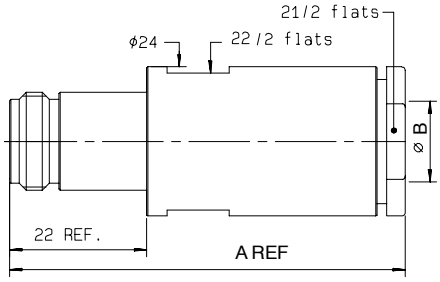


Fig. 2



STRAIGHT JACKS, FOR SEMI RIGID CABLES

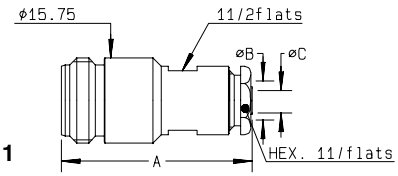


Fig. 1

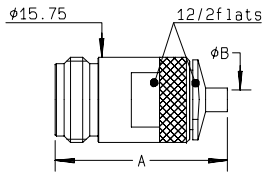


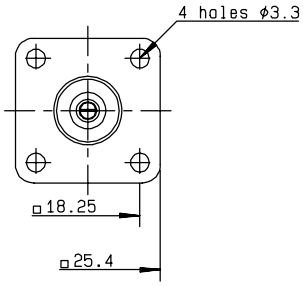
Fig. 2

cable group	part number	fig.	dimensions *(mm)*			captured center contact	mounting	note
			A	B	C			
.141"	**R161 227 000**	1	35.5	5.6	3.65	NO	M06	Clamp type
.141"	**R161 227 020●**	1	35.5	5.6	3.65	YES	M06	Clamp type
.141"	**R161 226 020**	2	32	3.65		NO	M21	Solder type

● Upon request

25.4 mm SQUARE FLANGE, STRAIGHT JACKS, FULL CRIMP TYPE, FOR FLEXIBLE CABLES

(single piece body) *(25.4 mm = 1 inch)*



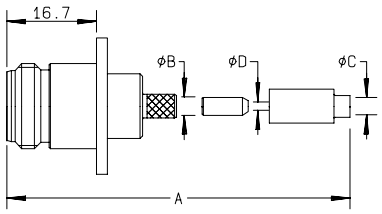


Fig. 1

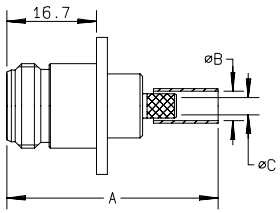


Fig. 2

cable group	part number	fig.	dimensions *(mm)*				captured center contact	mounting	panel
			A	B	C	D			
2 / 50 / S + D	**R161 281 000**	1	40.3	3.38	2.55	1	YES	M09	P01
2.6 / 50 / S+D	**R161 281 300**	1	40.3	3.38	3.25	1.63	YES	M09	P01
5 / 50 / S	**R161 282 000**	2	39.3	5.41	3.11		YES	M12	P01
5 / 50 / D	**R161 283 000**	2	39.3	5.8	3.11		YES	M12	P01
10 / 50 / S	**R161 286 000**	2	40.6	11.05	7.46		YES	M10	P01
11 / 50 / D	**R161 286 200**	2	40.6	11.4	7.46		YES	M10	P01

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

25.4 mm SQUARE FLANGE, STRAIGHT JACKS, CLAMP TYPE FOR FLEXIBLE CABLES

(25.4 mm = 1 inch)

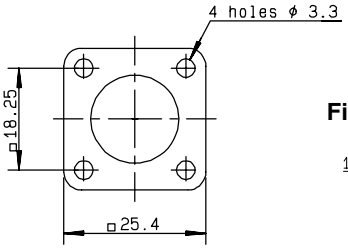
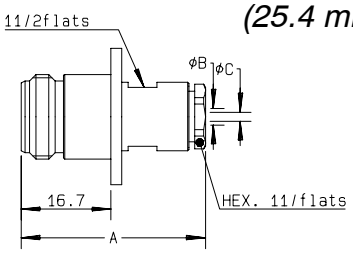


Fig. 1



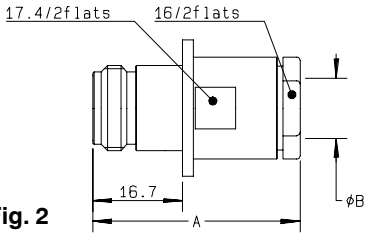
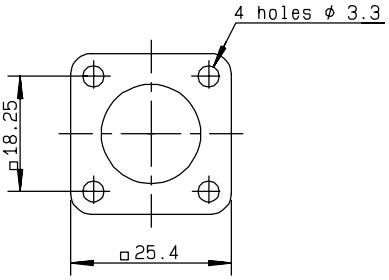


Fig. 2

cable group	part number	fig.	dimensions *(mm)*			captured center contact	mounting	panel
			A	B	C			
2.6 / 50 / S + D	**R161 252 000**	1	34.3	3.1	1.7	YES	M01	P01
5 / 50 / S + D	**R161 256 000**	1	35.4	5.6		YES	M03	P01
10 + 11 / 50 / S + D	**R161 270 000**	2	39.3	11.2		YES	M05	P01

25.4 mm SQUARE FLANGE, STRAIGHT JACKS, EZ FIT TYPE, FOR CORRUGATED CABLES

(25.4 mm = 1 inch)



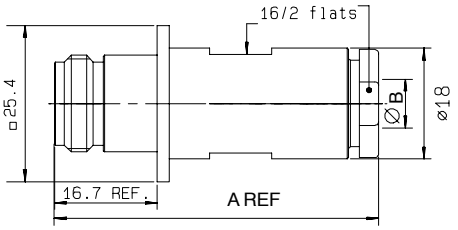


Fig. 1

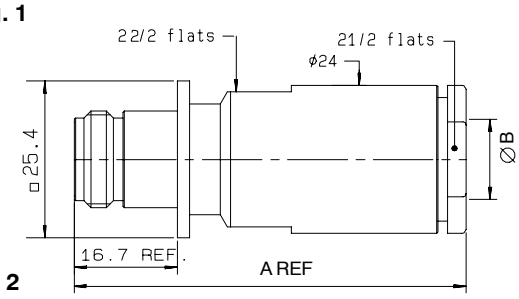


Fig. 2

cable group	part number	fig.	dimensions *(mm)*		captured center contact	mounting	panel
			A	B			
1/4" superflexible corrugated	**R161 279 007**	1	52.7	7.9	YES	M22	P01
3/8" superflexible corrugated	**R161 279 207**	2	66	11	YES	M22	P01
1/2" superflexible corrugated	**R161 279 407**	2	66	14	YES	M22	P01

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

25.4 mm SQUARE FLANGE, STRAIGHT JACKS, FOR SEMI RIGID CABLES *(25.4 mm = 1 inch)*

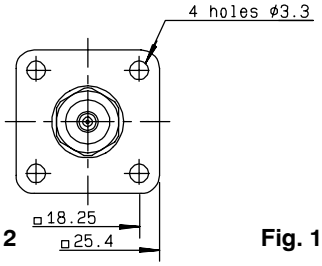


Fig. 1 & 2

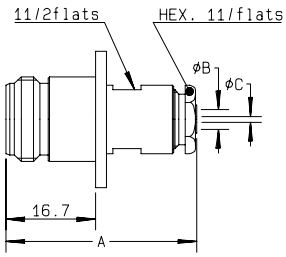


Fig. 1

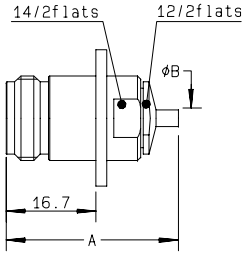


Fig. 2

cable group	part number	fig.	dimensions *(mm)*			captured center contact	mounting	panel	note
			A	B	C				
.085"	**R161 276 300**	2	32	2.25		NO	M21	P01	Solder type
.141"	**R161 277 000**	1	35.5	5.6	3.65	NO	M06	P01	Clamp type
.141"	**R161 277 020●**	1	35.5	5.6	3.65	YES	M06	P01	Clamp type
.141"	**R161 277 300**	2	32	3.65		NO	M21	P01	Solder type
.250"	**R161 278 300**	2	32	6.6		NO	M21	P01	Solder type

BULKHEAD STRAIGHT JACKS, FULL CRIMP TYPE, FOR FLEXIBLE CABLES *(PANEL SEALED)*
(single piece body)

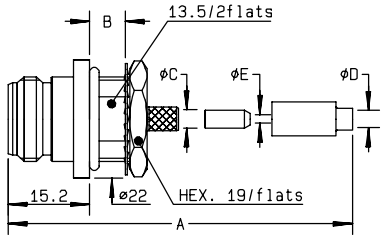


Fig. 1

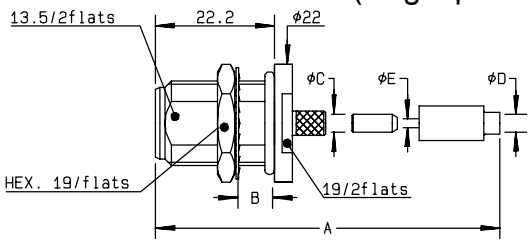


Fig. 2

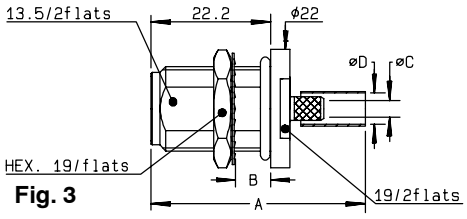


Fig. 3

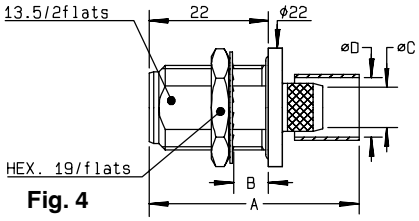


Fig. 4

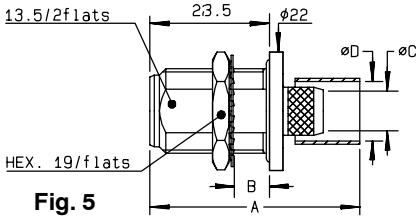
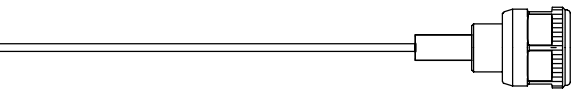


Fig. 5

cable group	part number	fig.	dimensions *(mm)*					captured center contact	mounting	panel	note
			A	B	C	D	E				
2 / 50 / S + D	**R161 309 000**	1	40.4	6.5	3.38	2.35	1	YES	M09	P10	Front mount
2 / 50 / S + D	**R161 309 200**	2						YES	M09	P10	Rear mount
2.6 / 50 / S + D	**R161 311 200**	1	40.4	6.5	3.38	3.25	1.63	YES	M09	P10	Front mount
2.6 / 50 / S + D	**R161 311 300**	2						YES	M09	P10	Rear mount
5 / 50 / S	**R161 329 130**	3	39.8	6.5	3.11	5.41		YES	M12	P10	LMR 200 cable / Rear mount
5 / 50 / S	**R161 329 000**	3						YES	M12	P10	Rear mount
5 / 50 / D	**R161 329 200**	3	39.8	6.5	3.11	5.8		YES	M12	P10	Rear mount
10 / 50 / S	**R161 331 000**	4	40.6	6.5	7.46	11.05		YES	M10	P10	Rear mount
10.3 / 50 / S	**R161 331 060**	5	46.88	6.5	7.46	11.05		YES	M11	P10	LMR 400 cable / Rear mount
11 / 50 / D	**R161 331 200**	4	40.6	6.5	7.46	11.4		YES	M10	P10	Rear mount
15.2 / 50 / S	**R161 331 400**	5	49.9	6.5	11.96	15.88		YES	M11	P10	LMR 600 cable / Rear mount / Solder type center contact

● Upon request

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.



BULKHEAD STRAIGHT JACKS, CLAMP TYPE, FOR FLEXIBLE CABLES *(PANEL SEALED)*

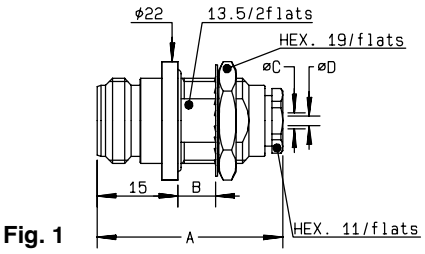


Fig. 1

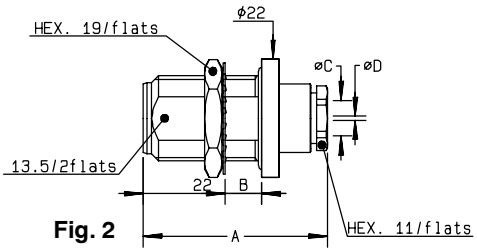


Fig. 2

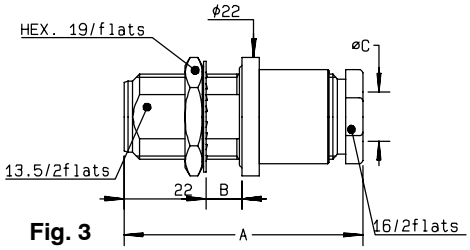


Fig. 3

cable group	part number	fig.	dimensions *(mm)*				captured center contact	mounting	panel	note
			A	B	C	D				
2.6 / 50 / S + D	**R161 321 000**	1	34.3	8	3.1	1.7	YES	M01	P10	Front mount
2.6 / 50 / S + D	**R161 322 000**	2	34.3	6.5	3.1	1.7	YES	M01	P10	Rear mount
5 / 50 / S + D	**R161 325 000**	2	35.4	6.5	5.6		YES	M01	P10	Rear mount
10 + 11 / 50 / S + D	**R161 332 000**	3	43	6.5	11.2		NO	M04	P10	Rear mount

BULKHEAD STRAIGHT JACKS, EZ FIT TYPE, FOR CORRUGATED CABLES

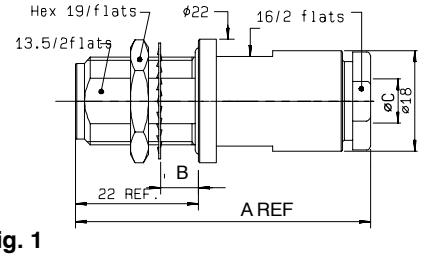


Fig. 1

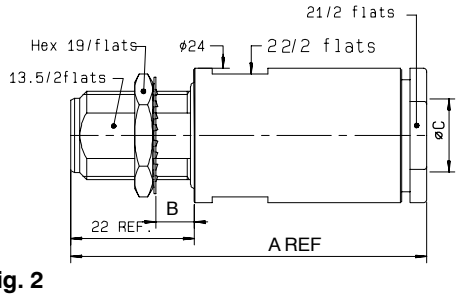


Fig. 2

cable group	part number	fig.	dimensions *(mm)*			captured center contact	mounting	panel
			A	B	C			
1/4" superflexible corrugated	**R161 341 007**	1	52.7	6.5	7.9	YES	M22	P10
3/8" superflexible corrugated	**R161 341 207**	2	66	6.5	11	YES	M22	P10
1/2" superflexible corrugated	**R161 341 407**	2	66	6.5	14	YES	M22	P10

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

BULKHEAD STRAIGHT JACKS, FOR SEMI RIGID CABLES *(PANEL SEALED)*

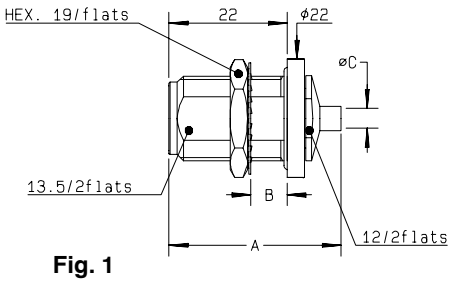


Fig. 1

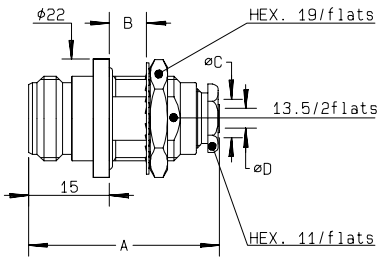


Fig. 2

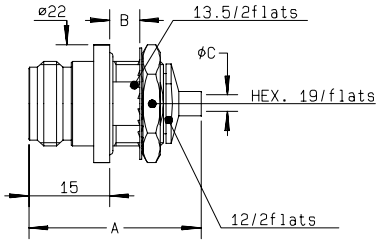


Fig. 3

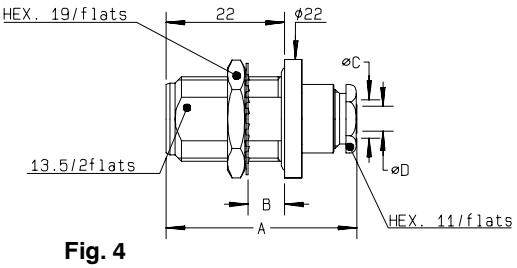
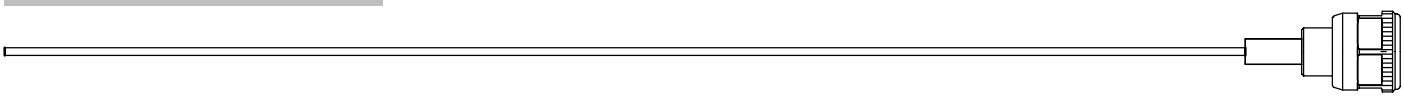


Fig. 4

cable group	part number	fig.	dimensions *(mm)*				captured center contact	mounting	panel	note
			A	B	C	D				
.085”	**R161 335 200**	1	32	6.5	2.25		NO	M21	P10	Solder type / Rear mount
.141”	**R161 323 000**	2	35.5	8	5.6	3.65	NO	M06	P10	Clamp type / Front mount
.141”	**R161 323 020●**	2	35.5	8	5.6	3.65	YES	M06	P10	Clamp type / Front mount
.141”	**R161 323 200**	4	35.5	6.5	5.6	3.65	YES	M06	P10	Clamp type / Rear mount
.141”	**R161 336 000**	1	32	6.5	3.65		NO	M21	P10	Solder type / Rear mount
.141”	**R161 336 200**	3	32	6.5	3.65		NO	M21	P10	Solder type / Front mount
.250”	**R161 337 200**	1	32	6.5	6.6		NO	M21	P10	Solder type / Rear mount

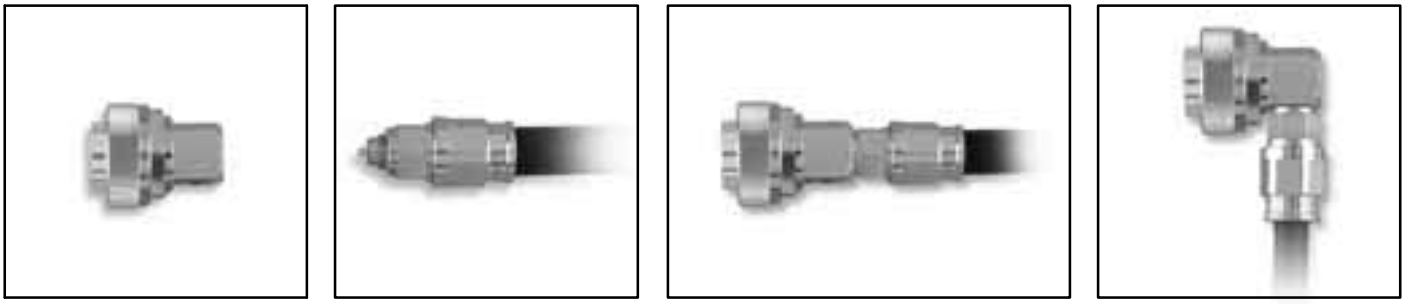
● Upon request

Note : standard packaging = 50 pieces. For unit packaging, add ”W” after the P/N.



▶ Concept

You can mount any tip (cable attachment) with any head (interface) either in a straight or right angle configuration.



Head + tip = Straight or R/A

▶ Advantages of flexibility

A lot of combinations are possible by screwing the chosen tips and heads together since any tip is intermateable with any head.

During base station installation, you may need, in a field situation, to change the configuration at the last minute:

- With the same head interface, the Coaxi-kit connector can be mounted either in a straight or a right angle position. It can be useful when the cable assembly is too short to be connected in a straight position. Using a Coaxi-kit, the existing cable assembly can be utilized by orienting the head to a right angle position, eliminating the need for a new cable assembly with a right angle connector.
- One head can be used for all the different cables from a 5 mm flexible cable size to a 1/2 inch corrugated cable!
- The same tip can be used for all the different interfaces of the BTS equipment which are supplied with 7/16 or N depending on the power transmitted, or manufacturer options.

▶ Advantages of cost saving

- By managing a lower number of P/N's you're making cost savings in qualification, purchasing, and inventory. For example, Radiall's full range represents 14 P/N (5 heads & 9 tips) which are equivalent to 90 connector combinations (near 7 times more !). The other advantage is the increase of volume by P/N which gives lower cost.
- Compared to a standard right angle connector, Coaxi-kit connectors use a simpler design. Including the price of the head & the tip, Coaxi-kit is a low cost right angle connector.

▶ Less stock

- By purchasing a Coaxi-kit, you eliminate separate stocks of complete connectors with different body styles and cable attachments, limiting the risk to run out of stock.

▶ Main performance characteristics

These connectors have the same performances as standard ones, except that the frequency ranges are:
- for flexible cables, from DC to 2.5 GHz,
- for corrugated cables, DC-11 GHz: N series and DC-7.5 GHz: 7/16 series.

Coaxi-kit with EZ fit cable attachment features a typical intermodulation value of -110 dBm.

▶ The product range

- Heads:
  - 7/16 series: plug and flange jack
  - N series: plug, flange jack and bulkhead jack
- Tips (cable attachment):
  - Crimp or clamp type on flexible cables (RG 58, RG 142, RG 213 or RG 214)
  - EZ fit type on super flexible corrugated cables (1/4", 3/8" or 1/2")
- All tips and heads are packaged by 20 pieces.

Heads for COAXI-KIT

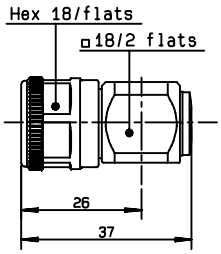
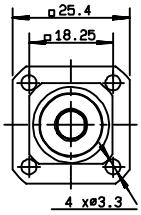


Fig. 1



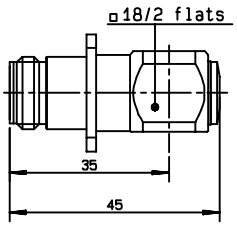


Fig. 2

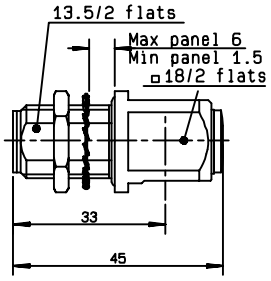


Fig. 3

part number	fig.	captured center contact	panel	note
R161 901 120	1	YES		Plug / tool R282 303 020 page 58
R161 912 120	2	YES	P01	Panel flange jack
R161 913 120	3	YES	P10	Panel bulkhead jack

Tips for COAXI-KIT

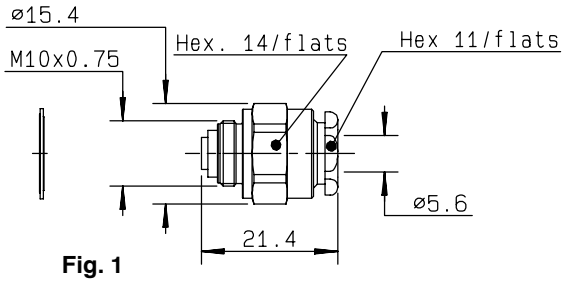


Fig. 1

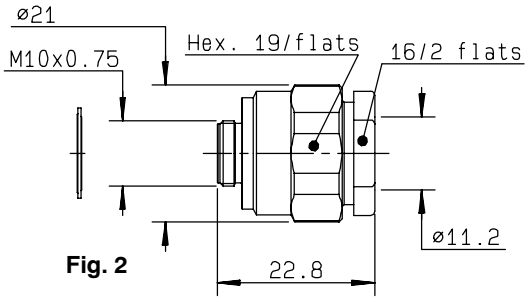


Fig. 2

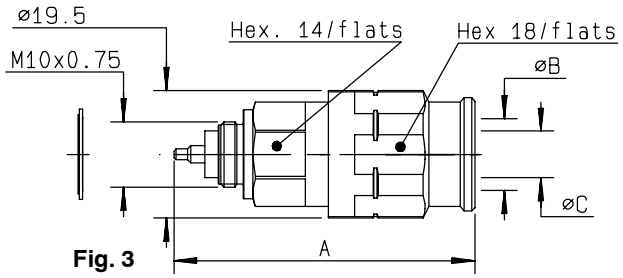


Fig. 3

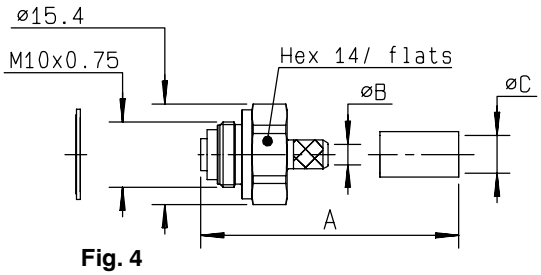


Fig. 4

cable group	part number	Fig.	dimensions *(mm)* A	B	C	mounting	finish	note
5 / 50 / S + D	**R280 008 030**	1				M28	Silver + BBR	Clamp type
5 / 50 / S	**R280 651 030**	4	24	3.1	5.41	M27		Crimp type
5 / 50 / D	**R280 651 230**	4	24	3.1	5.8	M27		Crimp type
10 / 50 / S	**R280 663 030**	4	21.5	7.46	11.05	M27		Crimp type
10 + 11 / 50 / S + D	**R280 017 030**	2				M29		Clamp type
10 + 11 / 50 / D	**R280 664 030**	4	21.5	7.46	11.4	M27		Crimp type, RG393
1/4" superflexible corrugated	**R280 021 200**	3	41.7	4.7	7.95	M30		EZ fit type
1/2" superflexible corrugated	**R280 022 200**	3	41.7	8.8	14	M30		EZ fit type
3/8" superflexible corrugated	**R280 023 200**	3	42.2	7.1	11	M30		EZ fit type

Note : standard packaging = 20 pieces. For unit packaging, add "W" after the P/N.

12.7 mm (SMA) FLANGE, STRAIGHT MALE AND FEMALE RECEPTACLES *(12.7 mm = 1/2 inch)*

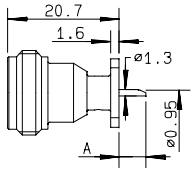


Fig. 1

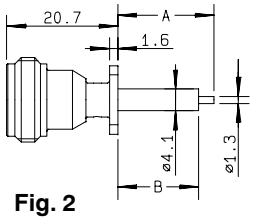


Fig. 2

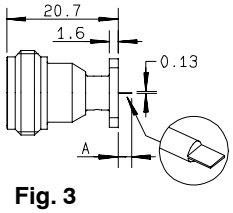


Fig. 3

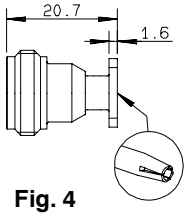


Fig. 4

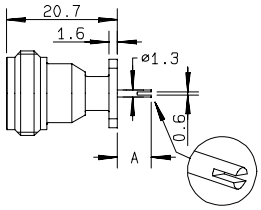


Fig. 5

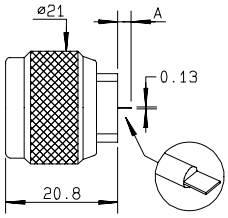


Fig. 6

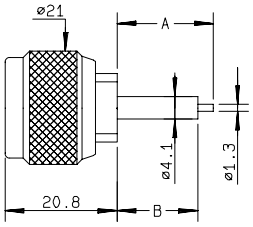


Fig. 7

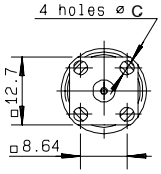


Fig. A

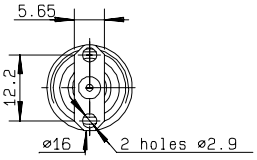


Fig. B

*Flange dimensions idem SMA series . Ask for complete SMA series catalog **D1 125 CE**.*

part number	fig.	dimensions *(mm)*			captured center contact	panel	note
		A	B	C			
R161 409 500	1 + A	5		2.9	YES	P13	Solder pot
R161 410 520	2 + A	17.9	15	2.9	YES	P13	Extended dielectric
R161 411 500	3 + A	2.5		2.9	YES	P13	Flat tab contact
R161 418 500	4 + A			2.9	YES	P13	Universal / see contacts Page 32
R161 419 500	5 + A	6.3		2.9	YES	P13	Slotted contact
R161 471 500	3 + B	2.5			YES	P20	2 hole flange / flat tab
R161 472 500	5 + B	6.3			YES	P20	2 hole flange / slotted contact
R161 438 200	6 + A	2.5		2.6	YES	P13	Male / flat tab / 4 screws included
R161 438 400	7+ A	17.9	15	2.6	YES	P13	Male / extended dielectric / 4 screws included

17.5 mm FLANGE, STRAIGHT FEMALE RECEPTACLES *(17.5 mm = 3/4 inch)*

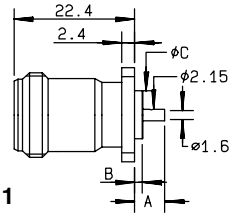


Fig. 1

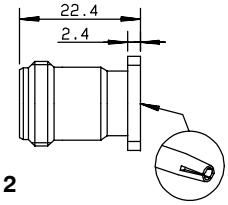


Fig. 2

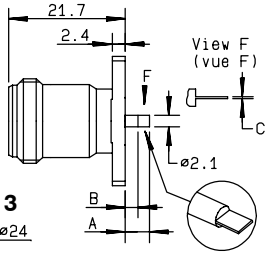


Fig. 3

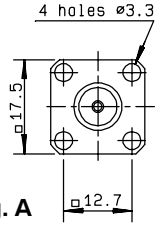


Fig. A

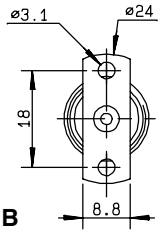


Fig. B

part number	fig.	dimensions *(mm)*			captured center contact	panel	note
		A	B	C			
R161 410 000	1 + A	5.6	1.5	8.9	YES	P03	
R161 418 000	2 + A				YES	P03	Universal / see contacts page 32
R161 461 000	3 + B	6.2	3.9	0.6	YES	P08	2 hole flange / Flat tab contact
R161 461 200	3 + B	2.5		0.13	YES	P08	2 hole flange / Flat tab contact

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

25.4 mm FLANGE, STRAIGHT MALE AND FEMALE RECEPTACLES *(25.4 mm = 1 inch)*

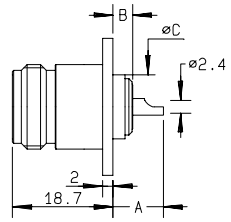


Fig. 1

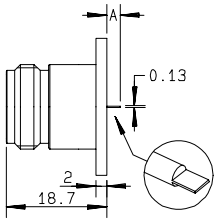


Fig. 2

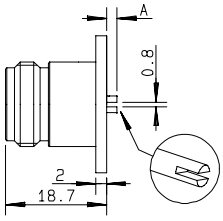


Fig. 3

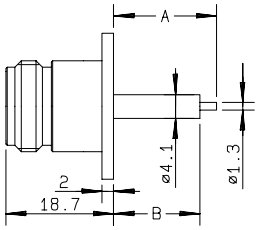


Fig. 4

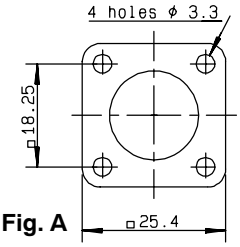


Fig. A

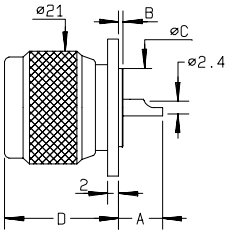


Fig. 5

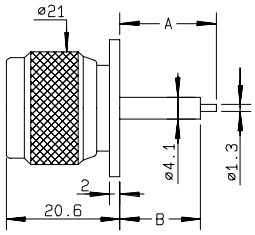


Fig. 6

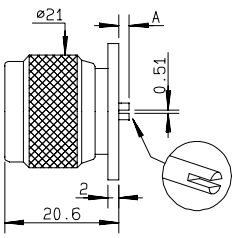


Fig. 7

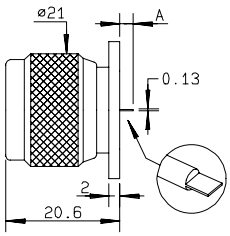
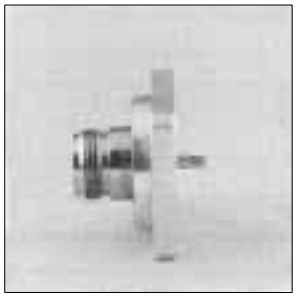
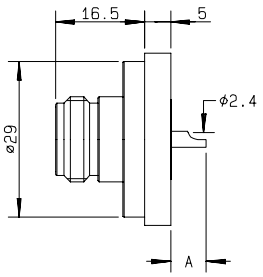


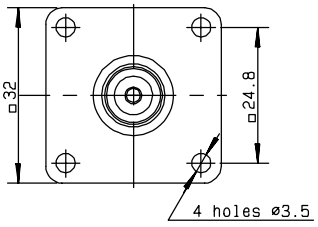
Fig. 8

part number	fig.	dimensions *(mm)*				captured center contact	panel	note
		A	B	C	D			
R161 404 000	1 + A	9.3	0.8	14.6		YES	P07	Solder pot
R161 404 137	1 + A	9.3	0.8	14.6		YES	P07	For intermodulation application/Center contact brass
R161 404 161	1 + A	9.3	0.8	14.6		YES	P07	Solder pot / Center contact : Brass
R161 412 020	1 + A	9.3	3.5	12		YES	P14	Solder pot
R161 416 130	4 + A	17.9	15			YES	P15	Extended dielectric
R161 419 020	2 + A	2.5				YES	P14	Flat tab contact
R161 419 300	3 + A	2				YES	P01	Slotted contact
R161 430 020	1 + A	6.5				YES	P14	Short back length
R161 440 020	5 + A	6	0		20.6	YES	P17	Male / solder pot
R161 440 120	5 + A	9.5	3.5	12	26.5	YES	P17	Male / solder pot
R161 441 000	5 + A	8.7	0.8	14.6	20.6	YES	P02	Male / solder pot
R161 441 400	6 + A	17.9	15			YES	P18	Male / extended dielectric
R161 444 037	7 + A	2				YES	P19	Male / slotted contact
R161 444 200	8 + A	2.5				YES	P17	Male / flat tab contact

32 mm (7/16) FLANGE, STRAIGHT FEMALE RECEPTACLE *(32 mm ≃ 1 inch 1/4)*



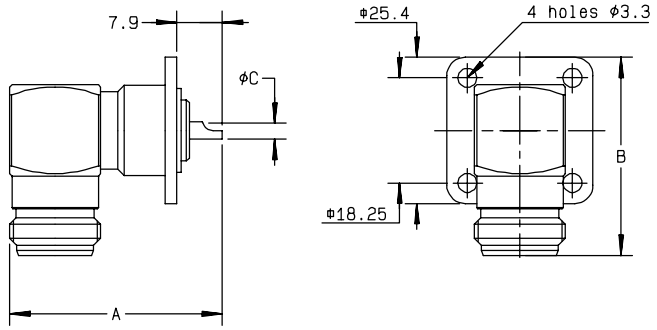




part number	dimensions *(mm)* A	captured center contact	panel	note
R161 422 120	6.5	YES	P16	Flange dimensions of 7/16 series. Ask our catalog **D1 185 CE**

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

25.4 mm FLANGE, RIGHT-ANGLE FEMALE RECEPTACLE *(25.4 mm = 1 inch)*



part number	dimensions *(mm)*			captured center contact	panel	note
	A	B	C			
R161 653 000	36.9	34.4	2.5	YES	P02	Solder pot

BULKHEAD STRAIGHT RECEPTACLES *(Panel sealed or HERMETIC)*

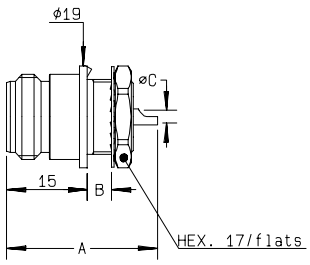


Fig. 1

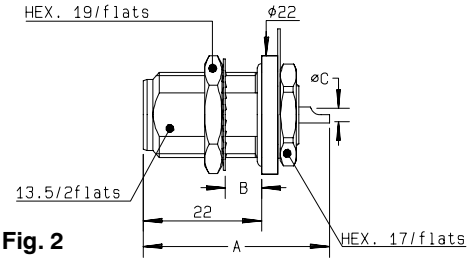


Fig. 2

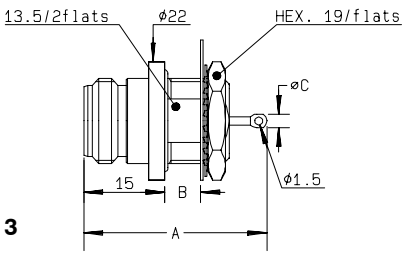


Fig. 3

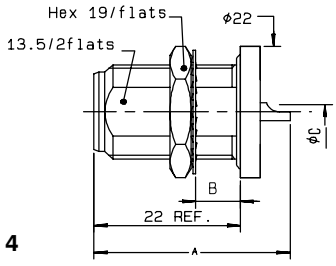


Fig. 4

part number	fig.	dimensions *(mm)*			captured center contact	panel	note
		A	B	C			
R161 570 000	1	28	4.5	2.4	YES	P09	Front mount
R161 585 200	2	34.6	6.5	2.4	YES	P10	Rear mount / Panel Sealed
R161 586 137	4	30.5	6.5	2.4	YES	P10	For intermodulation application / Rear mount / Panel Sealed
R161 606 000	2	34.6	6.5	2.4	YES	P10	Rear mount / Panel Hermetic
R161 625 000	3	34	6.5	2.5	YES	P10	Front mount / Panel Hermetic

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

IN SERIES ADAPTERS

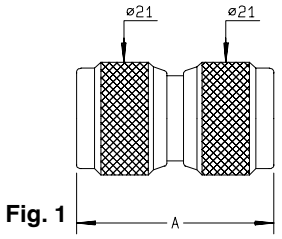


Fig. 1

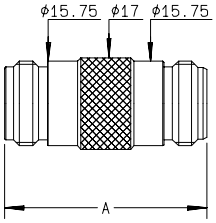


Fig. 2

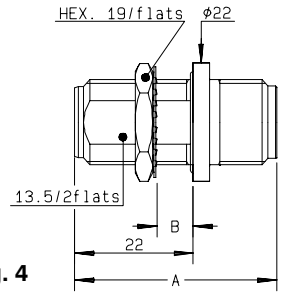


Fig. 4

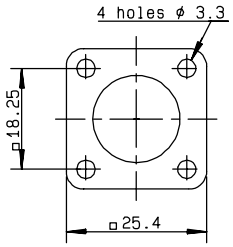
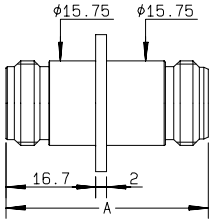


Fig. 3



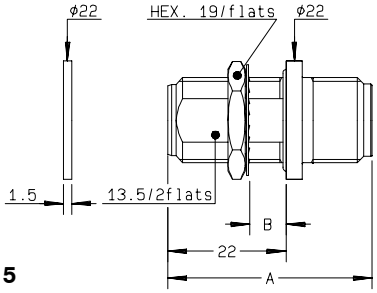


Fig. 5

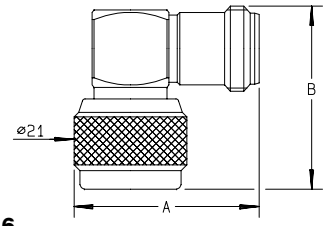


Fig. 6

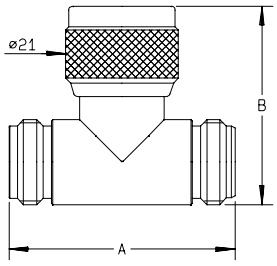


Fig. 7

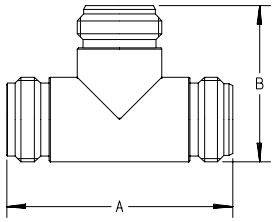


Fig. 8

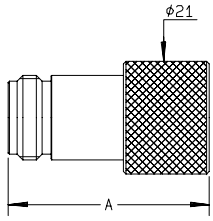


Fig. 9

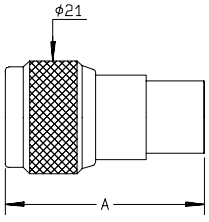


Fig. 10

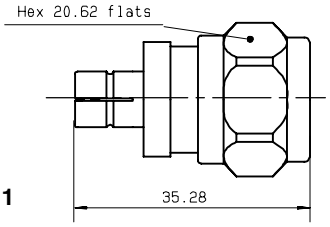


Fig. 11

part number	fig.	dimensions *(mm)*		panel	note
		A	B		
R161 703 000	1	36.7			M - M
R161 705 000	2	37.5			F - F
R161 715 000	3	37.5		P01	F - F / Flange
R161 730 000	4	37.5	6.5	P10	F - F / Bulkhead panel sealed
R161 753 000	5	38	6.5	P10	F - F / Hermetic / bulkhead
R161 771 000	6	34.4	34		M - F / Right-angle
R161 780 000	7	42	36.9		TEE F - F/M
R161 782 000	8	42	29.1		TEE F - F/F
R161 791 500	9	37.37			Push - on male / female screwing*
R161 791 530●	10	37.12			screwing male / Push - on female*
R161 792 500●	11	37.12			Push - on male / male screwing*

***** Push-on adapter, see our catalog **D1 036 DE**

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

PROTECTIVE CAPS

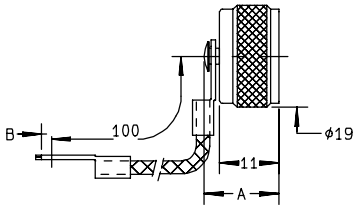


Fig. 1

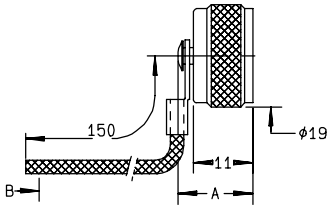


Fig. 2

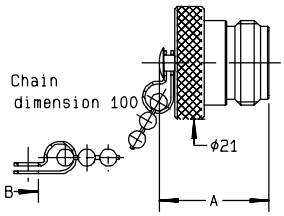


Fig. 3

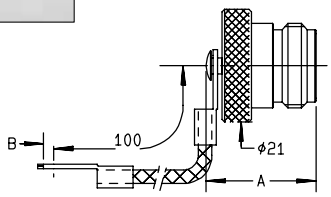


Fig. 4

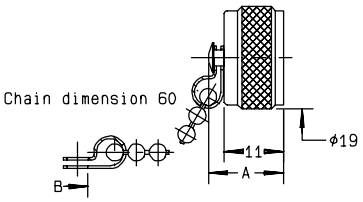


Fig. 5

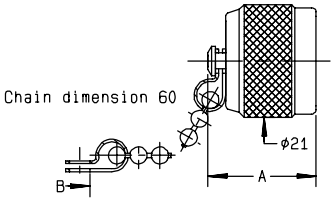


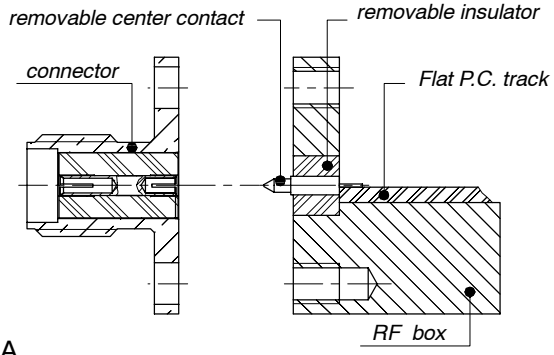
Fig. 6

part number	fig.	dimensions *(mm)*		note
		A	B	
R161 804 000	1	13.9	3.8	Male with cord
R161 805 410	2	13.9	2	Male with cord
R161 841 000	3	20.4	3.9	Female with chain
R161 844 000	4	20.4	3.8	Female with cord
R161 853 000	5	13.9	3.9	Male with chain
R161 862 000	6	20.1	3.9	Male short circuit with chain

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

FIELD-REPLACEABLE CONTACTS (*For universal receptacle)*

These accessories have been specifically designed for the adjustment at the rear of hermetically sealed universal receptacles shown on page 27.
The choice of their dimensions depends on the PCB or on the thickness of the MIC box. Moreover these contacts and insulators are also compatible with SMA UNIVERSAL RECEPTACLES *(see our complete SMA catalog P/N : **D1 125 CE**).*



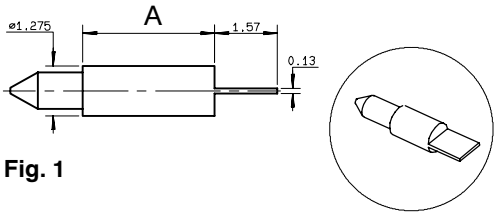


Fig. 1

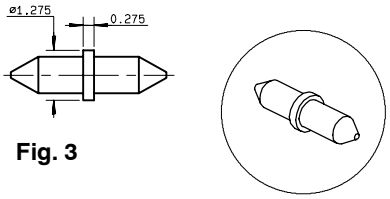


Fig. 3

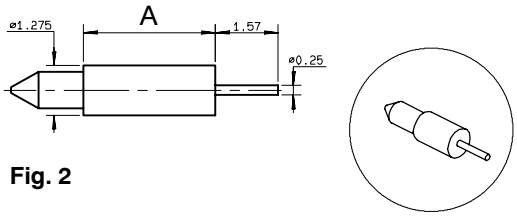


Fig. 2

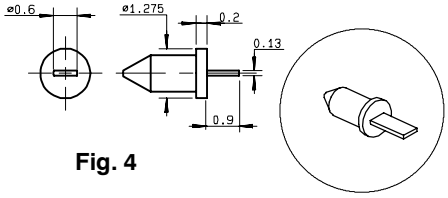
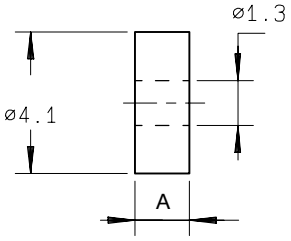


Fig. 4

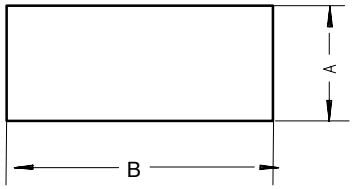
Part number	fig.	A	Packaging	Note	Associated insulator P/N
R280 460 000	1	1.77	10	flat tab	R280 467 0000
R280 461 000	1	3.37		flat tab	R280 468 0000
R280 462 000	2	1.77		cylindrical tab	R280 467 0000
R280 463 000	2	3.37		cylindrical tab	R280 468 0000
R280 464 000	3			symetrical	N/A
R280 465 000	4			flat recessed tab	N/A

FIELD-REPLACEABLE INSULATORS



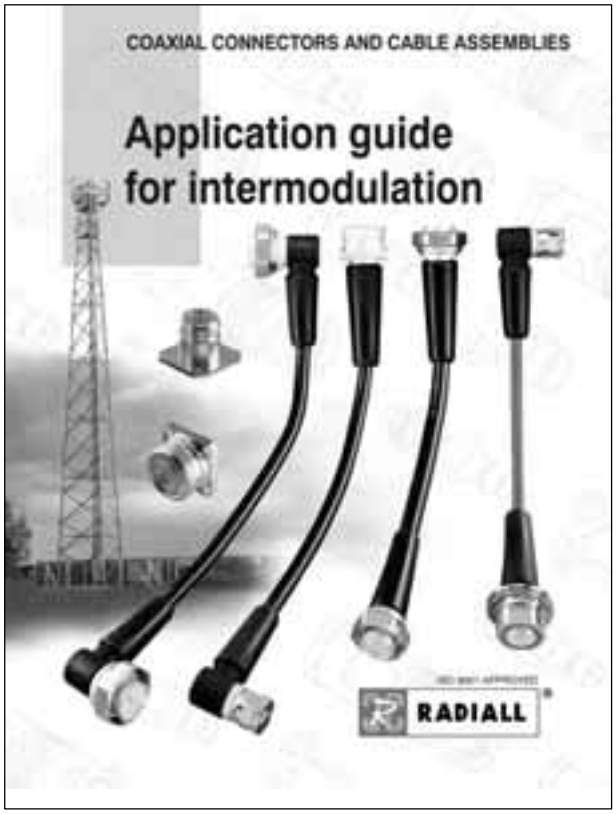
Part number	A	packaging
R280 467 000	1.57	10
R280 468 000	3.17	10

HEATSHRINK SLEEVES



These heatshrink sleeves guarantee an IP 65 moisture resistance on crimp type models and an IP 67 moisture resistance on clamp type models.

Cable group	part number	A	B	Packaging
2 / 50	**R280 637 010**	3.2	22	100
2.6 / 50	**R280 637 020**	4.8	22	
5 / 50-LMR200	**R280 637 030**	6.4	25.4	
10 / 50-11 / 50-LMR400-1/4"spiraled	**R280 637 040**	12	45	
3/8" superflexible corrugated -1/2" superflexible corrugated -LMR600	**R280 637 050**	24	50	



D1 032 DE

What is INTERMODULATION ?

IM (abbreviation for **I**nter**M**odulation) is an undesired modulation which leads to a distortion of the output High Frequency carrier.

It is defined as the ratio of the 3rd order intermodulation products against the incident signal power because, the most troublesome IM products are those of 3rd order.

For more detailed information, please ask for our application guide where we present :

- our intermodulation measurement system
- our product range

BBR (**B**right **B**ronze **R**ADIALL) plating has been specifically developed and employed by RADIALL for its excellence in Intermodulation sensitive applications.

For more detailed information, an application guide about the BBR high quality plating is available upon request.

D1 030 DE

CABLE ASSEMBLIES

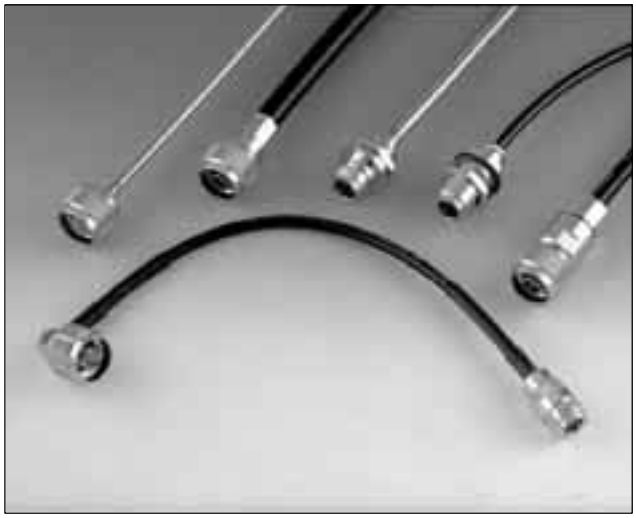
Radiall proposes you 3 types of cable assemblies with N type connectors.

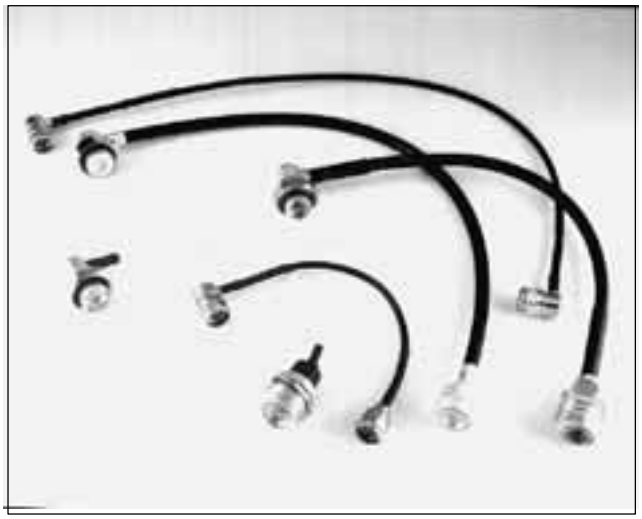
This range includes standard and custom cable assemblies, offering you standard, main and high level of intermodulation performance.*(See our intermodulation application guide : **D1 032 DE**)*.

◆ Standard level : **IMP_3 = -90 dBm typical** (see page 36-37)

The main characteristics of this range are :

- cross-knurled coupling nut
- coupling torque 130 N cm (with pliers R282 202 000)
- slotted outer contact
- plating : BBR (Bright Bronze Radiall)
- connectors also available uncabled
- 3 types of cable mounting : full crimp, clamp or solder.





◆ Main level : **IMP_3 = -110 dBm typical** (see page 38-39)

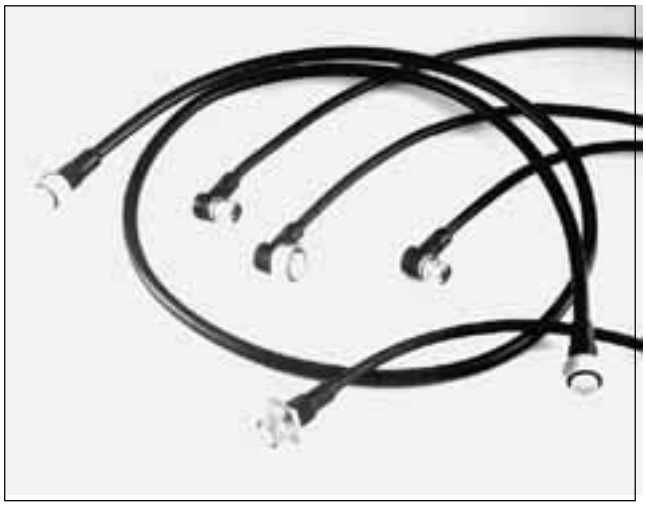
The main characteristics of this range are :

- hexagonal coupling nut (170 Ncm)
- non-slotted outer contact
- plating : silver (finish : strike of BBR)
- connectors also available uncabled (except for SHF cable)
- 3 types of cable mounting : full crimp, clamp or solder.

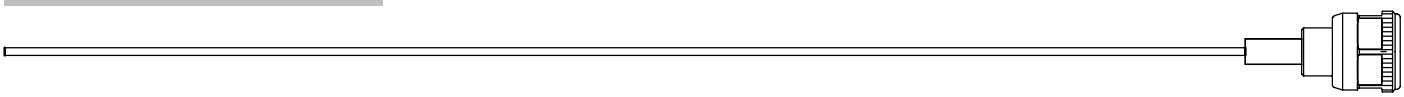
◆ High level : **IMP_3 = -125 dBm typical** (see page 40-41)

The main characteristics of this range are :

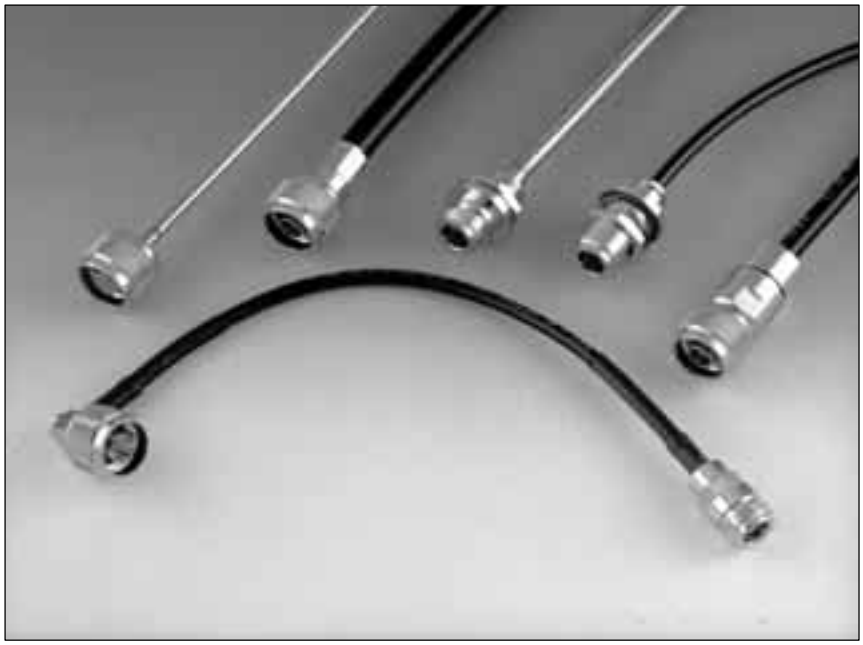
- hexagonal coupling nut (170 Ncm)
- non-slotted outer contact
- plating : silver (finish : strike of BBR)
- connectors only available for **cable assemblies made by Radiall**
- only solder type models : the most rigid cable attachment
- Intermodulation curves available upon request.
- Moisture resistance : IP 68 overmolding.



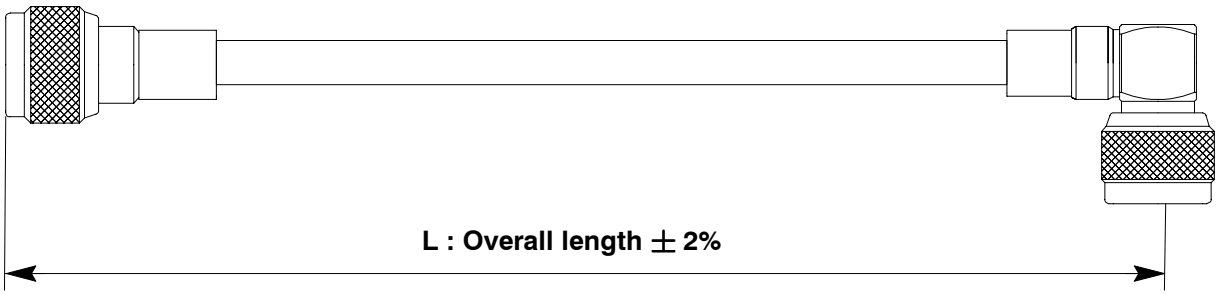
-90 dBm CUSTOM CABLE ASSEMBLIES



CABLE ASSEMBLIES WITH STANDARD CONNECTORS (***-90 dBm typ.***) (-133 dBc typ./20W)



HOW TO ORDER



Example : Straight plug N / Cable 5/50 D RG223 / Right angle plug / length 100 cm

R161 083 000 / C291 330 000 / R161 183 000 / 100

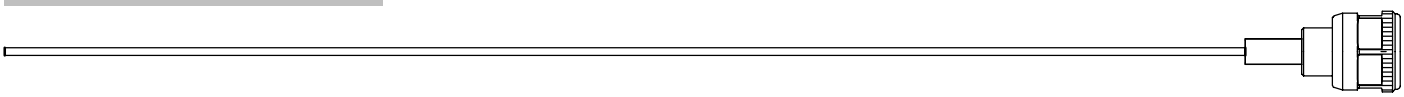
Connector 1 part number (see table 1)

Coax cable part number (see table 2)

Connector 2 part number (see table 1)

Overall length in cm

-90 dBm CUSTOM CABLE ASSEMBLIES



CABLE ASSEMBLIES WITH STANDARD CONNECTORS (*-90 dBm typ.*) (-133 dBc typ./20W)

Table 1 Connectors part number guide

MODEL		SEMI-RIGID CABLES			FLEXIBLE CABLES							TIMES		
		.085"	.141"	.250"	2/50 S / D	2.6 /5 0 S	2.6 / 50 D	5 / 50 S	5 / 50 D	10 / 50S	11 / 50 D	LMR 200	LMR 400	LMR 600
Straight plug	Solder	R161 050 300	R161 051 000	R161 054 000										
	Clamp	R161 050 000 R161 050 020●	R161 052 000 R161 052 020●	R161 053 000 R161 053 020●		R161 004 000		R161 006 000 R161 010 000		R161 020 000 R161 022 000				
	Crimp													R161 079 220
	Full crimp				R161 071 000	R161 072 000		R161 082 000	R161 083 000	R161 075 000	R161 088 000	R161 082 200	R161 075 060	
R/A plug	Clamp							R161 157 000		R161 168 000				
	Crimp					R161 181 000	R161 181 300	R161 182 000	R161 183 000	R161 184 000	R161 186 000	R161 182 200	R161 184 036	R161 188 200
	Full crimp									R161 185 000	R161 187 000			
Straight jack	Solder		R161 226 020											
	Clamp		R161 277 000 R161 227 020●					R161 206 000		R161 220 000				
	Full crimp							R161 237 000	R161 238 000	R161 241 000	R161 243 000			
Straight bulkhead jack rear mount	Solder	R161 335 200	R161 336 000	R161 337 200										
	Clamp		R161 323 200			R161 322 000		R161 325 000		R161 332 000				
	Full crimp				R161 309 200	R161 311 300		R161 329 000	R161 329 200	R161 331 000	R161 331 200	R161 329 130	R161 331 060	R161 331 400
Straight bulkhead jack front mount	Solder		R161 336 200											
	Clamp		R161 323 000 R161 323 020●			R161 321 000								
	Full crimp				R161 309 000	R161 311 200								
Straight jack flange mount	Solder	R161 276 300	R161 277 300	R161 278 300										
	Clamp		R161 277 000 R161 277 020●			R161 252 000		R161 256 000		R161 270 000				
	Full crimp				R161 281 000	R161 281 300		R161 282 000	R161 283 000	R161 286 000	R161 286 200			

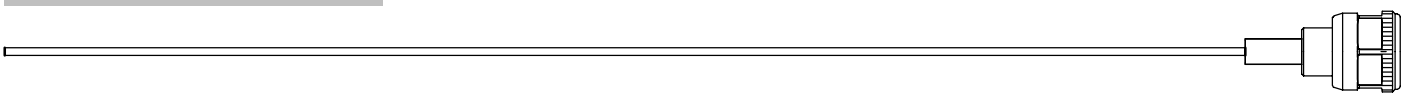
Notes : ● Manufactured upon request.

All our bulkhead mount jacks are panel sealed.

Table 2 Radiall cable part number guide

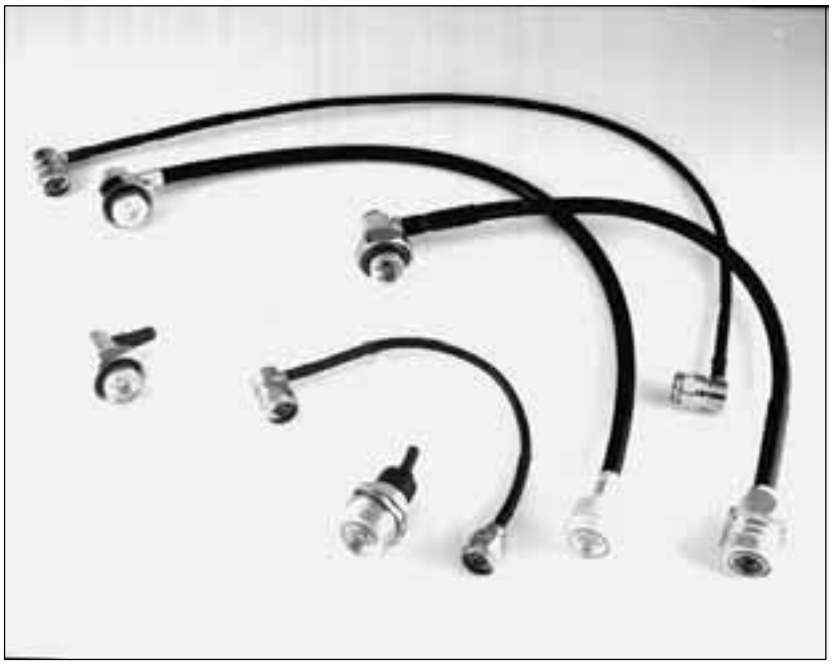
CABLE TYPE			P / N
SEMI-RIGID	.085"	RG 405	C291 850 001
	.141"	RG 402	C291 860 001
	.250"	RG 401	C291 870 001
FLEXIBLE	2 / 50 S	RG 178	C291 145 007
	2 / 50 D	FILOTEX	C291 146 087
	2.6 / 50 S	RG 174	C291 150 000
	2.6 / 50 D	OREBRO	C291 185 067
	5 / 50 S	RG 58	C291 305 000
	5 / 50 D	RG 223	C291 330 000
	10 / 50 S	RG 213	C291 510 000
	11 / 50 D	RG 214	C291 600 000
TIMES	5 / 50 S	LMR 200	C291 316 070
	10.3 / 50 S	LMR 400	C291 516 070
	15.2 / 50 S	LMR 600	C291 626 070

-110 dBm CABLE ASSEMBLIES

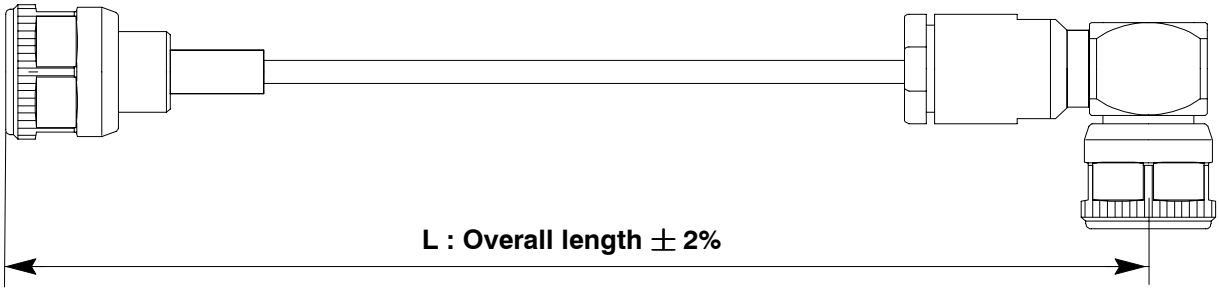


CABLE ASSEMBLIES WITH LOW INTERMODULATION CONNECTORS

(***- 110 dBm typ.***) (–153 dBc typ./20W)



HOW TO ORDER



Example : Straight plug N / Cable 11 / 50 D RG 214 / Right angle plug N / length 100 cm

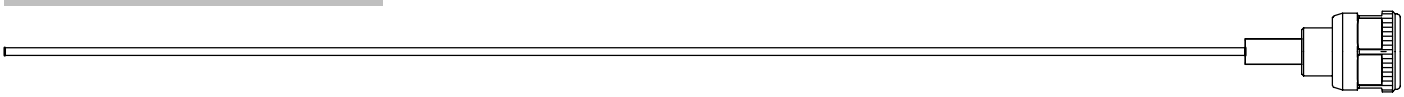
R161 088 137 / C291 600 000 / R161 186 137 / 100

Connector 1 part number (see table 1)

Coax cable part number (see table 2)

Connector 2 part number (see table 1)

Overall length in cm



CABLE ASSEMBLIES WITH LOW INTERMODULATION CONNECTORS
(***- 110 dBm typ.***) (–153 dBc typ./20W)

Table 1 Connectors part number guide

SERIES	MODEL		FLEXIBLE CABLES		SPIRALED CABLES			SHF	
			5 / 50 D	11 / 50 D	1/4"	3/8"	1/2"	5 LI	5 TD
N	Straight plug	Full crimp	R161 083 137	R161 088 137					R161 082 700
		Clamp			R161 036 007	R161 036 207	R161 037 020		
	R/A plug	Crimp	R161 183 137	R161 186 137					R161 182 020
		Clamp			R161 177 007	R161 177 207	R161 177 137		
		Solder						R161 195 206	
	Straight jack	Clamp			R161 232 007	R161 232 207	R161 232 407		
	Straight bulkhead jack	Clamp			R161 341 007	R161 341 207	R161 341 407		
	Straight flange mount jack	Clamp			R161 279 007	R161 279 207	R161 279 407		

Notes : All our bulkhead mount jacks are panel sealed.

Alll these connectors are also available unassembled, except models for SHF cables only sold on cable assemblies made by RADIALL.

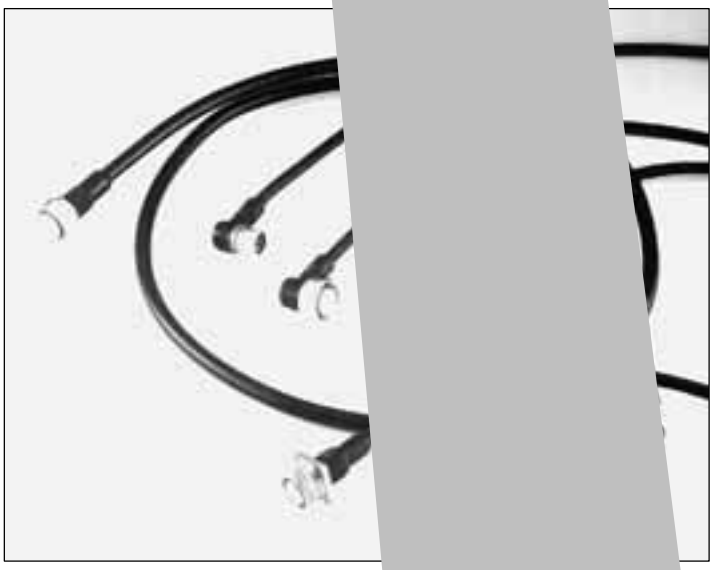
Table 2 Radiall cable part number guide

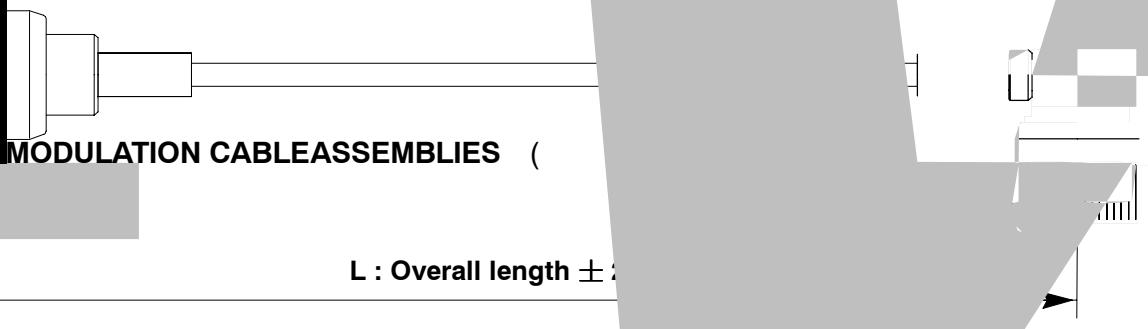
CABLE TYPE			P / N
SEMI-RIGID	.141"	RG 405	C291 860 001
FLEXIBLE	5 / 50 D	RG 223	C291 330 000
	11 / 50 D	RG 214	C291 600 000
(PTFE) FLEXIBLE	5 / 50 D	RG 400	C291 326 007
	10 / 50 D	RG 393	C291 511 007
CORRUGATED	1/4" superflexible corrugated	High flexible CELLFLEX	C291 993 170
		HELIAX	C291 993 070
	3/8" superflexible corrugated	High flexible CELLFLEX	C291 996 170
		HELIAX	C291 996 070
	1/2" superflexible corrugated	High flexible CELLFLEX	C291 994 170
		HELIAX	C291 994 070
SHF*	5 TD	RADIALL	C291 999 902
	5 LI		C291 955 192

***** For more details about SHF cables, see our catalog **D1 287 CE**.

-12 ASSEMBLIES

-165) (- dBc ty./20



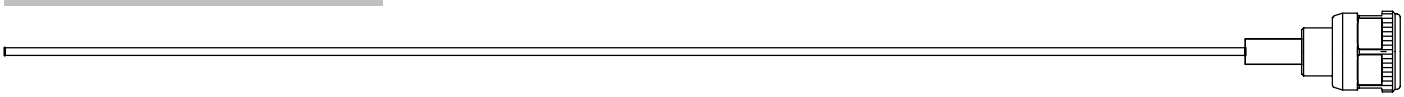


MODULATION CABLEASSEMBLIES (

L : Overall length ± 2

865 48 030 / C291 993 170 / 865 48 040 / 50

-125 dBm CABLE ASSEMBLIES



VERY LOW INTERMODULATION CABLE ASSEMBLIES (*- 125 dBm typ.*) (–165 dBc typ./20W)

Connectors part number guide

SERIES	MODEL Solder Type	SUPERFLEXIBLE CORRUGATED			SEMI RIGID	(PTFE) FLEXIBLE
		1/4"	3/8"	1/2"	.141"	

L

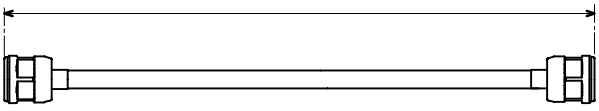


Fig 1

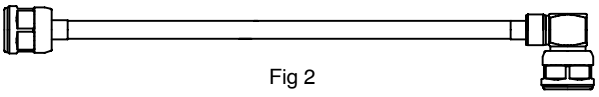


Fig 2

L

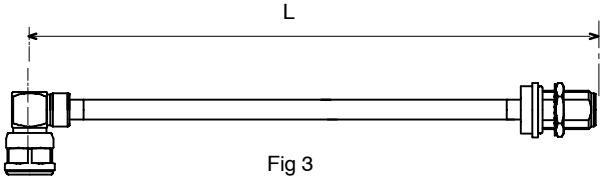


Fig 3

Fig 4

Fig 5

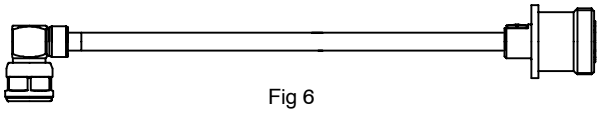
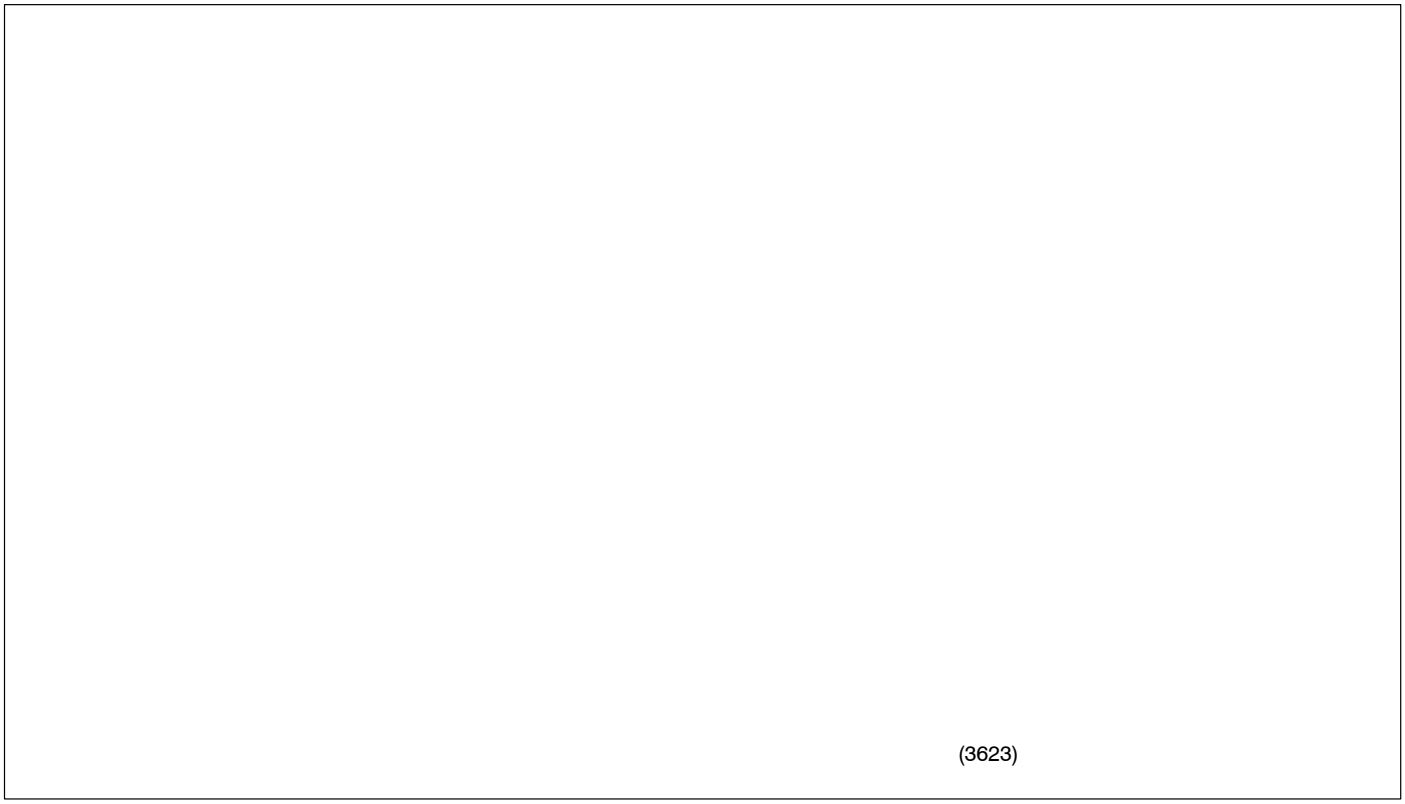


Fig 6

INTERFACE



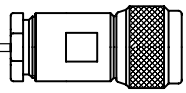
REP	MINI	MAXI
A	0.13 (.005)	1.03 (.13)
B	2.80 (.110)	3.56 (.140)
C	5.33 (.2098)4364.3[2]1((.290))]TJ0[2.1055[D[0.0041[c[1)	
D		
E	(32568)(3290)	
F	.1 (63398)24.3[8]1((63780))]TJ0[2.1843[D[0.0028[c[[0.93)-89921((8-288))-27S5(2.1)[7]8]1((82680))]TJ0[2.0567[D[0.0191[c[1.960	
G	0870	
ØH		
ØJ		
ØK		
ØL		
ØM		

(3315) [75)

REP	MINI	MAXI
A	(6115) (624	
B		
C	.0660)	
D		
E		
F		
ØG		
ØH		
ØJ		
ØK		
ØL		

N 75 Ω

CHARACTERISTICS



TEST/CHARACTERISTICS	STANDARD REFERENCE	VALUES/REMARKS

ELECTRICAL CHARACTERISTICS

Impedance		75 Ω	
Frequency range		DC – 1.5 GHz	
V.S.W.R. (typical)		1.5 GHz ***cable 6 / 75*** : 1.06 ***cable 10 + 11 / 75*** : 1.10	
Insertion loss *straight connector* *right-angle connector*	MIL	< 0.15 dB max	
RF Leakage	MIL	– 90 dB min at 1 GHz	
Insulation resistance	MIL	5000 MΩ min	
Contact resistance *center contact* *outer contact*	MIL	Initial 1 mΩ 0.2 mΩ	After tests 1.5 mΩ –
Working voltage in VRMS *at sea level (at 70, 000 feet)*	CECC	***cable 10 + 11 / 75*** : 1400 (400) ***cable 6 / 75*** : 850 (250)	
Dielectric withstanding voltage in VRMS *at sea level (at 70, 000 feet)*	CECC	***cable 10 + 11 / 75 :*** 2500 (600) ***cable 6 / 75 :*** 1500 (350)	
RF testing voltage *sea level*	CECC	1500 VRMS (5 MHz sine wave)	

MECHANICAL CHARACTERISTICS

Durability	CECC	500 matings
Force to engage and disengage	CECC	6.6 Ncm max (.58 Inch-pounds)
Recommended coupling nut torque		40 to 60 Ncm (manual) 130 Ncm (11.45 inch pounds) (with pliers R 282 202 000)
Proof torque	CECC	170 Ncm (14.96 inch pounds)
Coupling nut retention force	CECC	450 N (101.25 Lbs)
Cable retention force	CECC	***cable 6 / 75 :*** 200 N ***cable 10 + 11 / 75 :*** 300 N
Center contact retention force *axial*	MIL	27 N (6.08 Lbs)

ENVIRONMENTAL CHARACTERISTICS

Temperature range	CECC	– 55°C + 155°C
Thermo cycling test	CECC	– 55°C / + 155°C / 21 j.
Thermal shock	CECC	– 40°C / + 155°C or – 40°C / + 85 °C - 5 cycles
Hight temperature test	CECC	125°C / 1000 H
Corosion salt spray	CECC	48 H
Vibration	CECC	Sinus 10 g / 10 - 500 Hz
Shock	CECC	1/2 Sinus 50g / 11 ms
Moisture resistance *clamp type* *crimp type*	IEC 529	IP 67 IP 65 (with heatshrink sleeve)
Hermetic test	CECC	10-5 bar. cm^3/s
Leakage	CECC	Differential pressure 100 to 110 KPa : 1 bar cm^3 / H

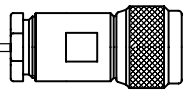
MATERIALS

Body (nut)/center male contact/outer contact		brass
Center female contact		Treated beryllium copper
Ferrule		brass
Insulator		PTFE
Gasket		Silicon elastomer

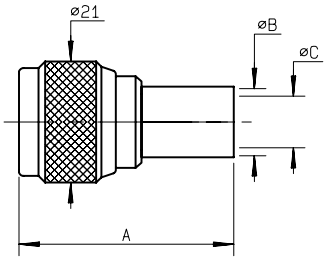
PLATINGS

Body		BBR
Coupling nut / Design		BBR / cross knurled
Center contacts		Gold
Outer contacts / Design		BBR / slotted

All dimensions in mm.



STRAIGHT PLUGS, CRIMP TYPE, FOR FLEXIBLE CABLES



cable	part number	dimensions A	B	C	captured center contact	mounting
6 / 75 / S	**R162 084 000**	33.9	6.6	4	YES	M33
10 / 75 / S	**R162 075 000**	37.25	11.05	7.46	YES	M33
11 / 75 / D	**R162 088 000**	37.25	11.4	7.46	YES	M33

STRAIGHT PLUGS, CLAMP TYPE, FOR FLEXIBLE CABLES

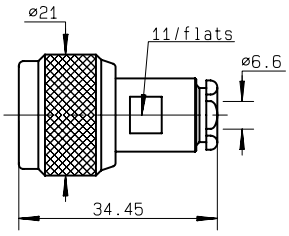


Fig. 1

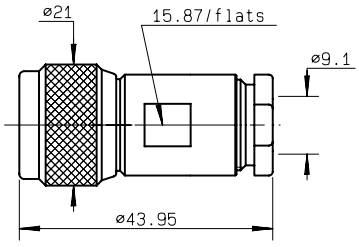


Fig. 2

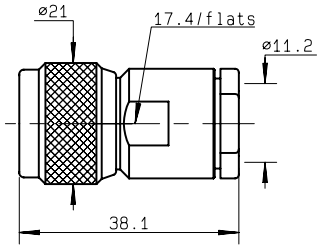
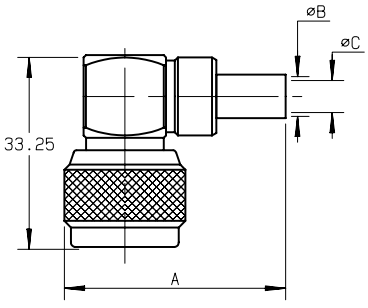


Fig. 3

cable	part number	fig.	captured center contact	mounting
6 / 75 + 93	**R162 012 000**	1	NO	M02
8 / 75 / D	**R162 013 000**	2	NO	M16
10 + 11 / 75	**R162 017 000**	3	NO	M04

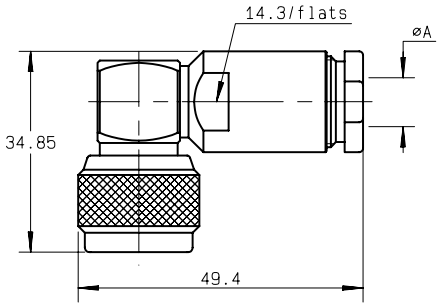
RIGHT ANGLE PLUGS, CRIMP TYPE, FOR FLEXIBLE CABLES



cable	part number	dimensions A	B	C	captured center contact	mounting
6 / 75 / S	**R162 184 000**	38.25	6.6	4	YES	M33
10 / 75 / S	**R162 185 000**	42.25	11.05	7.46	YES	M33
11 / 75 / D	**R162 187 000**	42.25	11.4	7.46	YES	M33

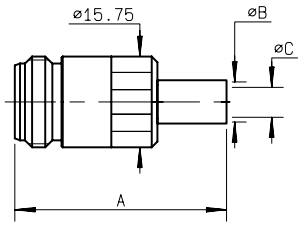
Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

RIGHT ANGLE PLUGS, CLAMP TYPE, FOR FLEXIBLE CABLES



cable	part number	dimensions A	captured center contact	mounting
6 / 75 + 93	**R162 162 000**	6.5	YES	M16
10 + 11 / 75	**R162 168 000**	11.2	YES	M16

STRAIGHT JACKS, CRIMP TYPE, FOR FLEXIBLE CABLES



cable	part number	dimensions			captured center contact	mounting
		A	B	C		
6 / 75 / S	**R162 239 000**	36.6	6.6	4	YES	M33
10 / 75 / S	**R162 241 000**	40.6	11.05	7.46	YES	M33
11 / 75 / D	**R162 243 000**	40.6	11.4	7.46	YES	M33

STRAIGHT JACKS, CLAMP TYPE, FOR FLEXIBLE CABLES

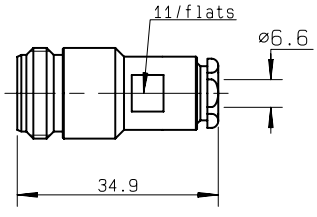


Fig. 1

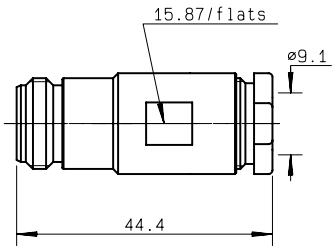


Fig. 2

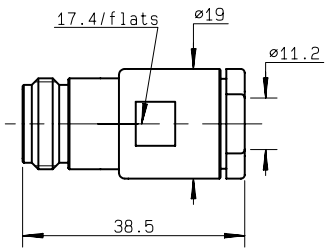
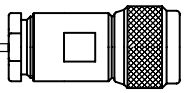
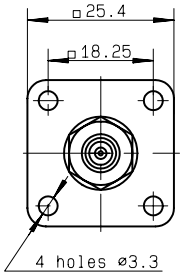
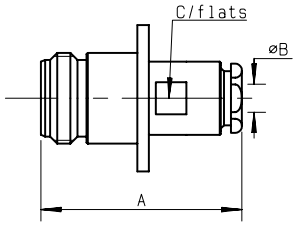


Fig. 3



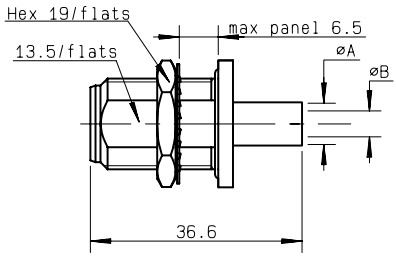
SQUARE FLANGE STRAIGHT JACKS, CLAMP TYPE, FOR FLEXIBLE CABLES





cable	part number	dimensions			captured center contact	mounting	panel
		A	B	C			
6 / 75 + 93 / S	**R162 262 000**	34.9	6.6	11	NO	M02	P03
10 + 11 / 75	**R162 267 000**	38.5	11.2	17.4	NO	M04	P03

STRAIGHT BULKHEAD JACKS, CRIMP TYPE, FOR FLEXIBLE CABLES



cable	part number	dimensions		captured center contact	mounting	panel
		A	B			
6 / 75 / S	**R162 335 000**	6.6	4	YES	M33	P01
10 / 75 / S	**R162 336 000**	11.05	7.46	YES	M33	P01
11 / 75 / D	**R162 339 000**	11.4	7.46	YES	M33	P01

STRAIGHT BULKHEAD JACKS, CLAMP TYPE, FOR FLEXIBLE CABLES

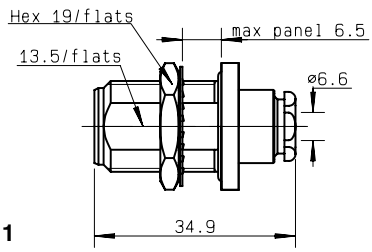


Fig. 1

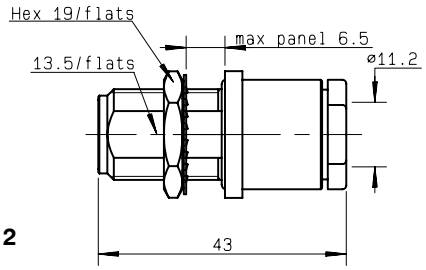
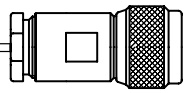


Fig. 2

cable	part number	fig.	captured center contact	mounting	panel
6 / 75 + 93 / S	**R162 328 000**	1	NO	M02	P01
10 + 11 / 75	**R162 332 000**	2	NO	M04	P01

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.



FEMALE RECEPTACLES

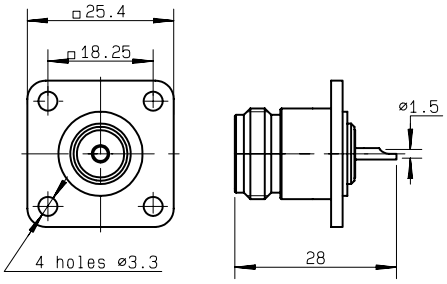


Fig. 1

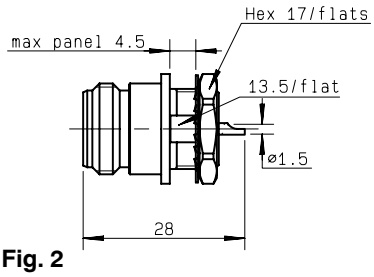


Fig. 2

part number	fig.	captured center contact	panel
R162 403 000	1	YES	P04
R162 570 000	2	YES	P02

IN SERIES ADAPTERS

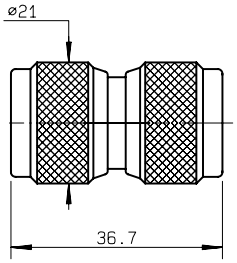


Fig. 1

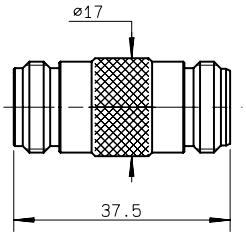


Fig. 2

part number	fig.	captured center contact
R162 703 000	1	YES
R162 705 000	2	YES

Note : standard packaging = 50 pieces. For unit packaging, add "W" after the P/N.

COAXIAL BETWEEN SERIES ADAPTERS

Ask for our full detailed catalog of COAXIAL BETWEEN SERIES ADAPTERS 50 & 75 Ω* : ***D1 191 CE***.

Interface	SMA		SMA 3.5		SMB		SMC		FME
	Male	Female	Male	Female	Male	Female	Male	Female	Male
N Male	**R191 325 000** **R191 325 500•** (SMA Push-on)	**R191 329 000** **R191 329 500•** (SMA Push-on)	**R191 324 000**	**R191 328 000**	**R191 233 000**		**R191 141 000**		
N Female	**R191 327 000**	**R191 331 000**	**R191 326 000**	**R191 330 000**	**R191 236 000** (flange)	**R191 239 000**	**R191 143 000**	**R191 147 000**	**R191 042 000**

Interface	BNC		N 75 Ω / BNC 75 Ω		TNC		N 75 Ω / 1.6 / 5.6 (75 Ω)		DIN 7/16	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
N Male	**R191 417 000** **R191 417 500•** (BNC Push-on)	**R191 421 000** **R191 421 500•** (BNC Push-on)	**R192 417 000**	**R192 421 000**		**R191 513 000**	**R192 775 000** (screw-on)	**R192 777 000** (screw-on snap-on)	**R191 721 000**	**R191 720 000**
N Female	**R191 419 000**	**R191 422 000** (bulkhead)	**R192 419 000**	**R192 418 000**	**R191 511 000**	**R191 514 000** (flange)	**R192 770 000** (screw-on)	**R192 771 000** (screw-on snap-on)	**R191 722 000**	**R191 723 000**

Interface	C		LC		UHF		HN		N18 / PC 7 (18 GHz)	
	Male	Female	Male	Female	Male	Female	Male	Female		
N Male		**R191 703 000**				**R191 731 000**			**R191 025 000**	Measurement kit (M + F) **R191 094 000**
N Female	**R191 705 000**	**R191 708 000** (flange)	**R191 745 000**	**R191 741 000**	**R191 733 000**		**R191 737 000**		**R191 027 000**	

***** For Push-on adapters, please ask for **D1 036 DE** catalog. Numerous other models for panel mount also currently available
• Upon request

Joule effect soldering device

Compliant with European standards n° 89/336/CEE and 73/23/CEE (electromagnetic compatibility and low voltage)

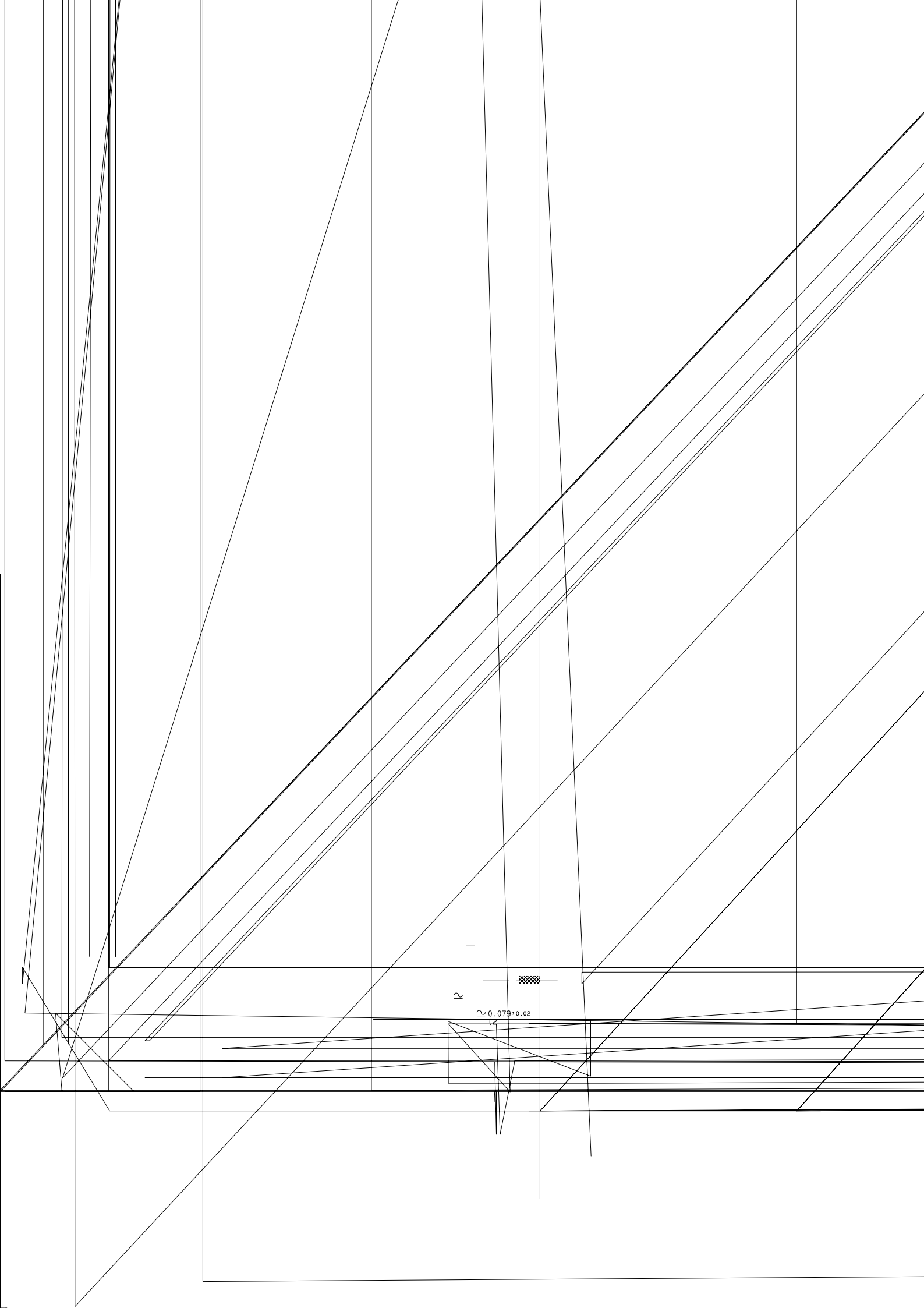
It allows to solder :

- center contacts and bodies to semi-rigid cables,
- center contacts to flexible cables
- solder pot receptacles.

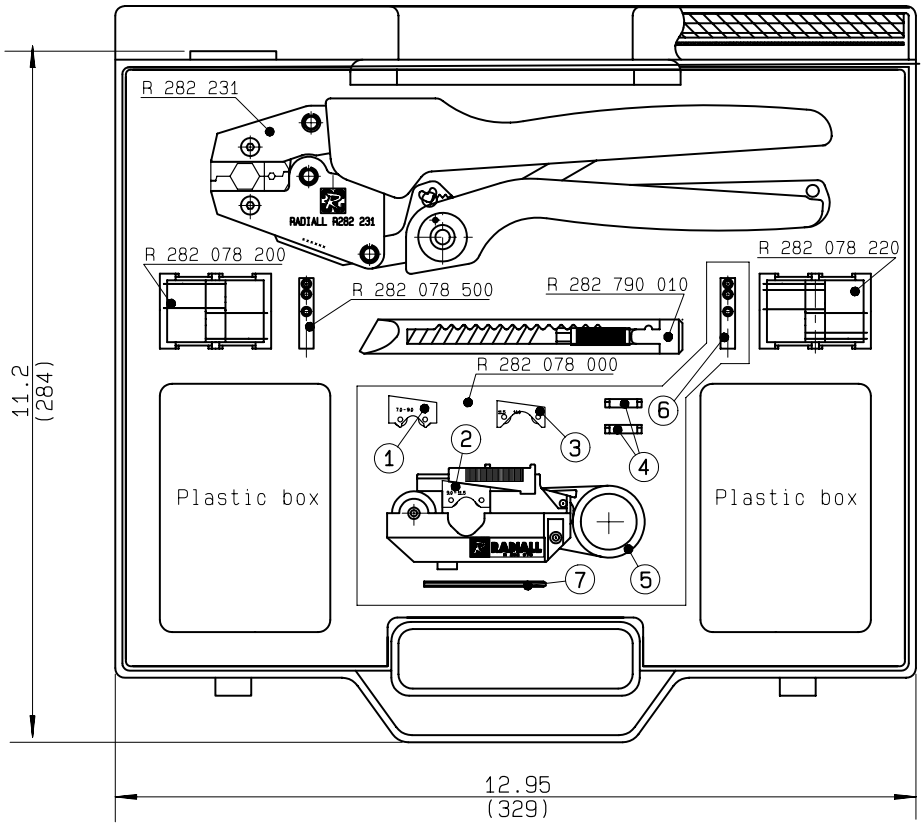
P/N of the soldering device : **R282 800 000** (80 W-shown above)
R282 800 001 (250 W).
Please ask for our leaflet about Joule effect soldering device **D1 035 DE**.

Radiall recommends to always carry out soldering operations in well ventilated areas and to make use of fume extraction equipment.
Our fume extraction device complies also with European standards n° 89/336/CEE , 89/392/CEE and 73/23/CEE.
Its flow is adjustable up to 240 m^3 /h and it uses active coal filter.
P/N of the fume extraction device : **R282 803 000**.

Fume extraction device


≃ 0.079±0.02

KIT : STRIPPING + CRIMPING CABLES 10 + 11 / 50 + 75 S + D



Part number	**R 282 124 100**

R 282 078 000	UNIVERSAL TOOL BODY	1 - Red V guide for dia ext. cable 7 to 9mm 2 - Blue V guide for dia ext. cable 9 to 11.5mm 3 - Yellow V guide for dia ext. cable 11.5 to 14mm 4 - Two interior supports 5 - Universal tool body 6 - Ajustement bit (Identical R 282 078 500) 7 - Wrench
R 282 078 200	RED STRIPPING CASSETTE 0.393	≃ 0.394 ±0.02 (10 ±0.5)
R 282 078 220	YELLOW STRIPPING CASSETTE 0.315/0.098	≃ 0.315 ±0.02 (8 ±0.05) ≃ 0.098 ±0.02 (2.5 ±0.5)
R 282 078 500	AJUSTEMENT BIT	
R 282 231	CRIMPING TOOL	0.1 (2.54) 0.415 (10.54)
R 282 790 010	SCALPEL	

Inside the box, every part number can be ordered separately.

RADIALL CRIMP TOOLS (DIES INCLUDED)

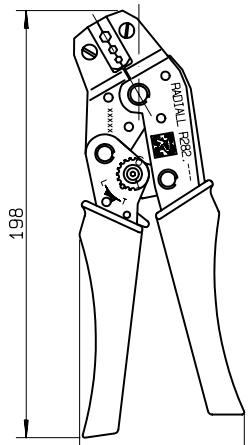


FIG 1

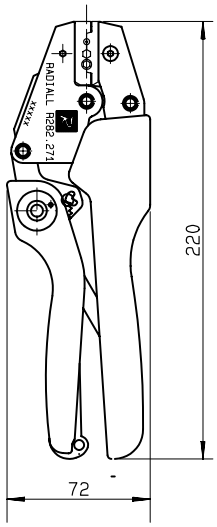


FIG 2

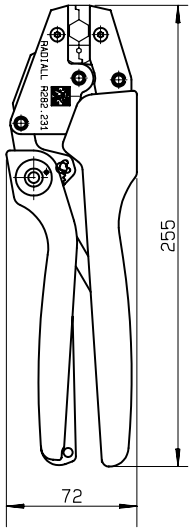
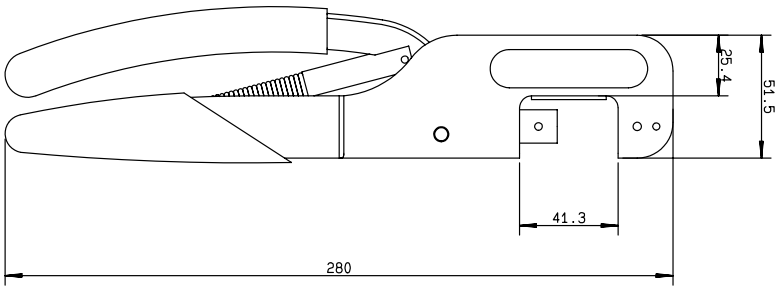


FIG 3

PART NUMBER	FIG.	CABLE GROUP	COLOUR OF HANDLES			
R282 211 000	1	2/50 S - 2.6/50 S	RED	4.52	3.25	2.67
R282 223 000	1	5/50 S - 5/50 D	ORANGE	6.48	5.41	1.73
R282 231 000	3	10.3/50 S	YELLOW	10.54	2.54	
R282 271 000	2	2.6/50 S - 2.6/50 D	BLACK	3.84	3.25	0 72*

* Square crimping print.

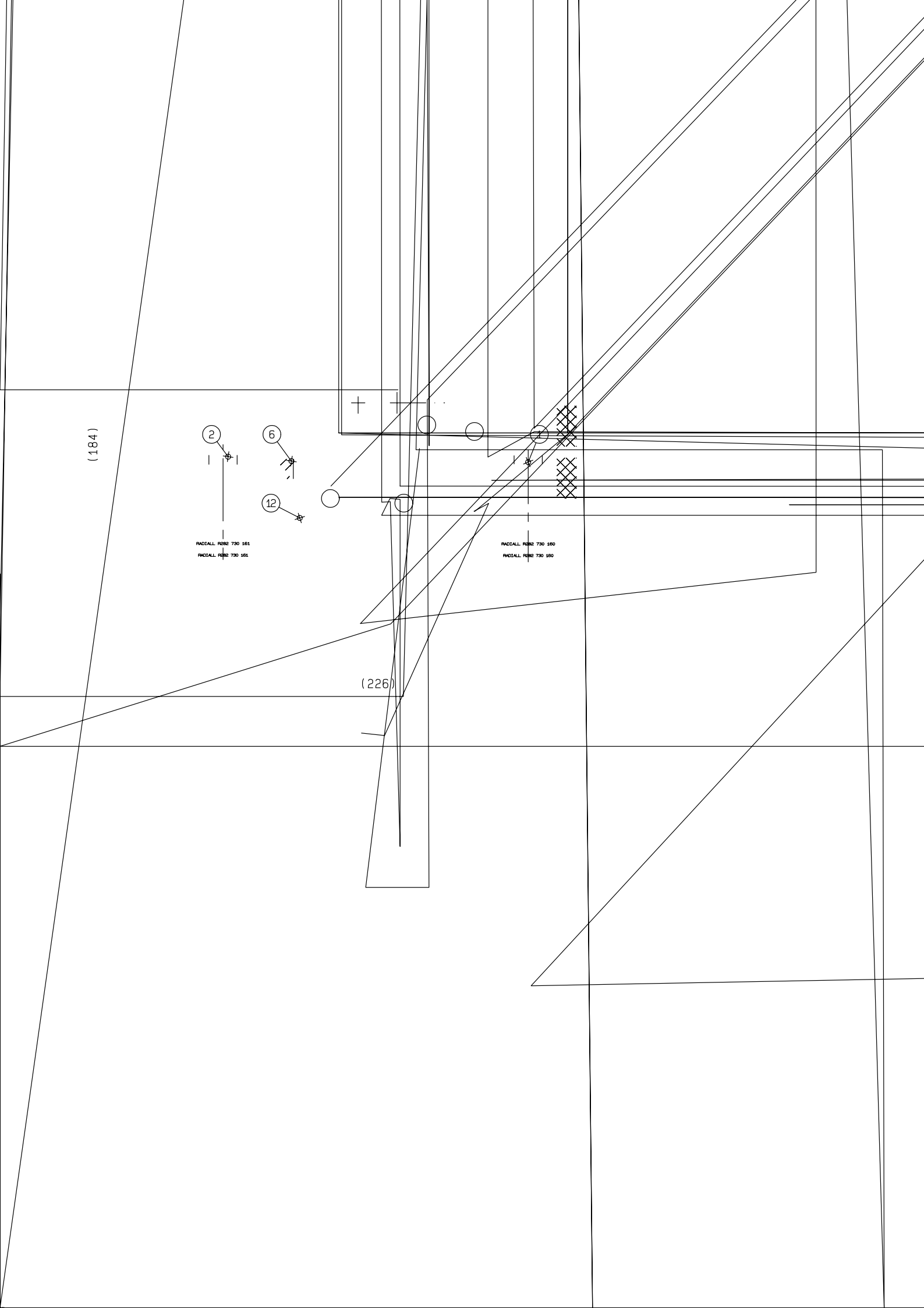
MIL CRIMP TOOL (MIL 22520/05-01) (DIES NOT INCLUDED)



Part number	**R282 293 000**

DIES

Part number	Cable group		
R282 235 003	2.6/50 S	3.25	2.67
R282 235 011	5/50 S - 5/50 D	5.41	1.73
R282 235 013	6/75 S	6.48	1.73
R282 235 037	2.6/50 D	7.97	3.84
R282 235 116	10/50 D - 10.3/50 S- 11/50 D	10.54	2.54
R282 235 166	15.2/50 S	15.49	


(184)
2
6
12
RADIALL R282 730 161
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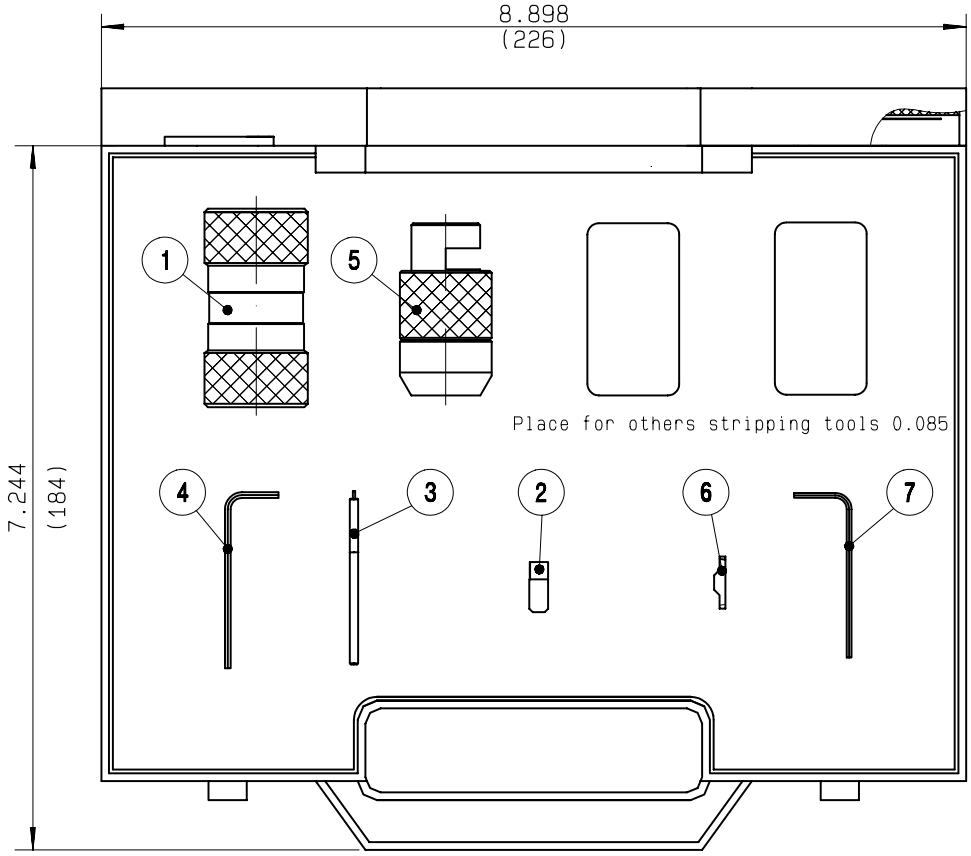
RADIALL R282 730 160
(226)

KIT : STRIPPING .125 (3.17) + CONING FOR .085” SEMI-RIGID CABLE

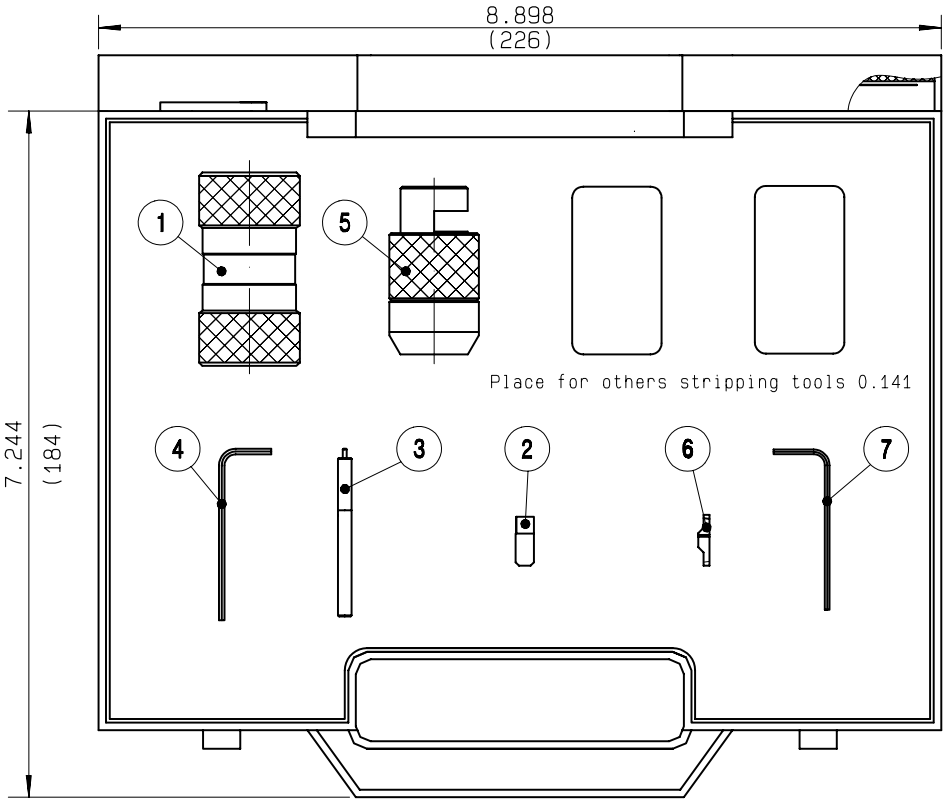


Part number	**R 282 114 125**

NOMENCLATURE
1 - **R 282 051 000** Stripping tool.085
2 - **R 282 055 000** Replacement stripping blade
3 - **R 282 864 110** Blade installation gauge.085
4 - **R 282 344 150** 0.059 inch (across flats) male hex key
5 - **R 282 063 000** Coning and length-setting tool.125 long on.085
6 - **R 282 056 085** Replacement coning blade
7 - **R 282 344 127** 0.05 inch (across flats) male hex key

Inside the box, every part number can be ordered separately.

KIT : STRIPPING .177 (4.5) + CONING FOR .141” SEMI-RIGID CABLE

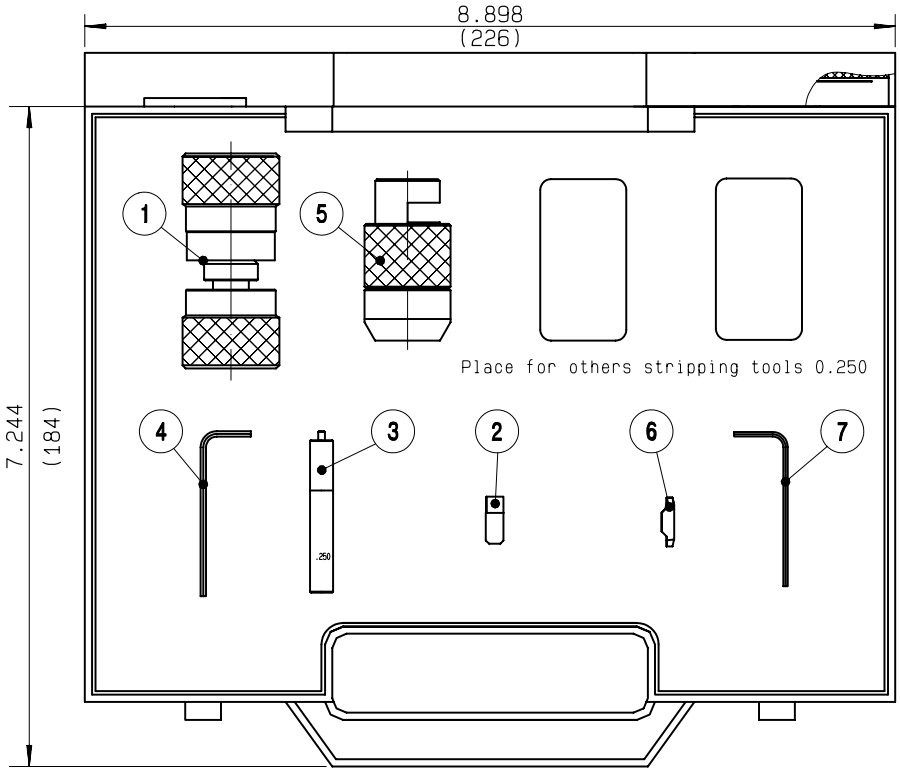


Part number	**R282 114 168**

NOMENCLATURE
1 - **R 282 053 000** Stripping tool .141
2 - **R 282 055 000** Replacement stripping blade
3 - **R 282 864 120** Blade installation gauge .141
4 - **R 282 344 150** 0.059 inch (across flats) male hex key
5 - **R 282 066 010** Coning and length-setting tool .177 long on.141
6 - **R 282 056 118** Replacement coning blade
7 - **R 282 344 127** 0.05 inch (across flats) male hex key

Inside the box, every part number can be ordered separately.

KIT : STRIPPING .177 (4.5) + CONING FOR .250” SEMI-RIGID CABLE

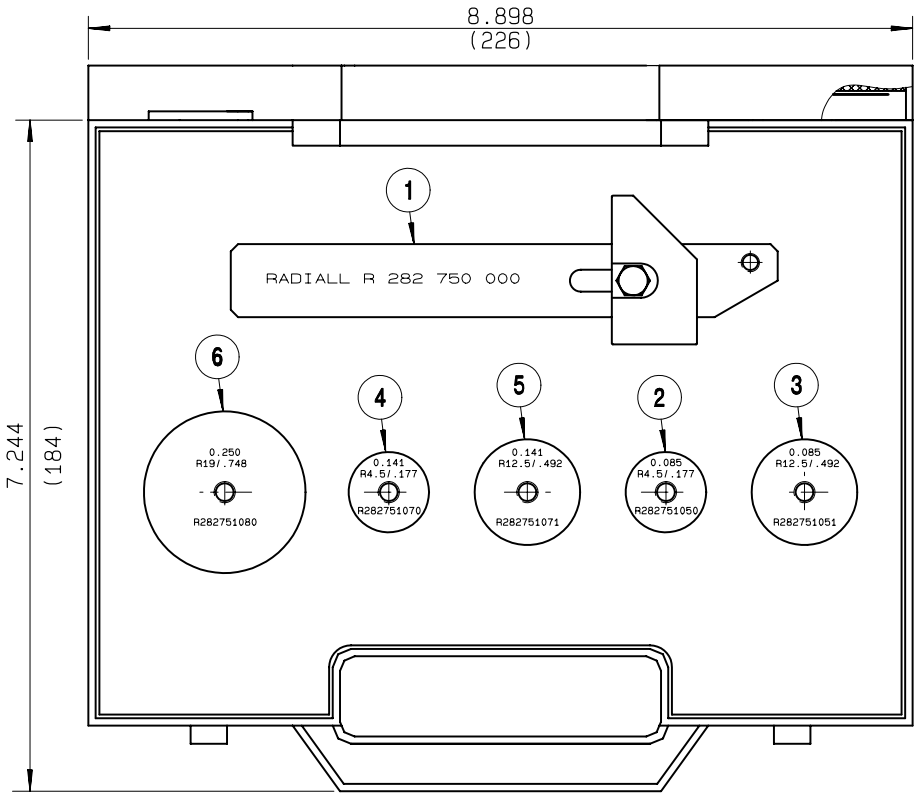


Part number	**R282 114 208**

NOMENCLATURE
1 - **R 282 054 000** Stripping tool .250
2 - **R 282 055 000** Replacement stripping blade
3 - **R 282 864 140** Blade installation gauge .250
4 - **R 282 344 150** 0.059 inch (across flats) male hex key
5 - **R 282 074 020** Coning and length-setting tool.177 long on .250
6 - **R 282 056 250** Replacement coning blade
7 - **R 282 344 127** 0.05 inch (across flats) male hex key

Inside the box, every part number can be ordered separately.

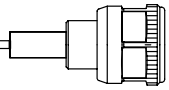
KIT : BENDING OF SEMI-RIGID CABLES



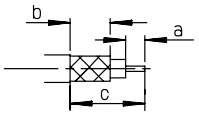
Part number	**R282 102 000**

NOMENCLATURE	OLD CROSS-REFERENCES
1 - **R 282 750 000** Bending tool	730 11 000 (09)
2 - **R 282 751 050** Bending gauge .085	730 11 040 (02)
3 - **R 282 751 051** bending gauge .085	730 11 030 (01)
4 - **R 282 751 070** Bending gauge .141	730 11 060 (04)
5 - **R 282 751 071** Bending gauge .141	730 11 050 (03)
6 - **R 282 751 080** Bending gauge .250	730 11 070 (05)

Inside the box, every part number can be ordered separately.



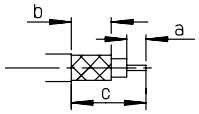
MATCHING P/N WITH CRIMP TOOLS



P/N	Mounting	Cable strip dimensions			Center contact		Ferrule*		
		a	b	c	Hex.	Crimp tool	Hex.	Standard crimp tools P/N (dies included)	MIL Crimp tool R 282 293 000 + dies P/N
R 161 071 000	M09	4		13	-	-	5.41	R 282 223 000	R 282 235 011
R 161 072 000		4.5	8	14					
R 161 075 000	M10	5	8	14	2.54	R 282 231 000	10.54	R 282 231 000	R 282 235 116
R 161 075 060 **R 161 076 000**			9	15					
R 161 079 220	M11	4	11	17	-	-	15.49	-	R 282 235 166 Y1668 DANIELS
R 161 082 000 **R 161 082 200** **R 161 083 000**	M12	4.5	8	14	1.73	R 282 223 000	5.41	R 282 223 000	R 282 235 011
R 161 083 137	M24								
R 161 088 000	M10	5	8	14	2.54	R 282 231 000	10.54	R 282 231 000	R 282 235 116
R 161 088 137	M24								
R 161 181 000	M18	3.5	7	18	-	-	3.25	R 282 211 000	R 282 235 003
R 161 181 300							3.84	R 282 271 000	R 282 235 037
R 161 182 000 **R 161 182 200** **R 161 183 000**	M18	3.5	7	18	-	-	5.41	R 282 223 000	R 282 235 011
R 161 183 137	M25								
R 161 184 000	M18	2.5	10	22.5	-	-	10.54	R 282 231 000	R 282 235 116 Y116 DANIELS
R 161 185 000	M20	4.5	8	15	2.54	R 282 231 000			
R 161 184 036	M18	2.5	16.7	29.2	-	-			
R 161 186 000			8	22.5					
R 161 187 000	M20	4.5	8	15	2.54	R 282 231 000			
R 161 186 137	M18	2.5	10	22.5	-	-			
R 161 188 200	M19	9.5	15	30	-	-	15.49	-	R 282 235 166 Y1168 DANIELS
R 161 237 000 **R 161 238 000**	M12	4.5	8	14	1.73	R 282 223 000	5.41	R 282 223 000	R 282 235 011
R 161 241 000 **R 161 243 000**	M10	5	8	14	2.54	R 282 231 000	10.54	R 282 231 000	R 282 235 116
R 161 281 000	M09	4		13	-	-	5.41	R 282 223 000	R 282 235 011
R 161 281 300		4.5	8	14					
R 161 282 000 **R 161 283 000**	M12	4.5	8	14	1.73	R 282 223 000			
R 161 286 000 **R 161 286 200**	M10	5	8	14	2.54	R 282 231 000	10.54	R 282 231 000	R 282 235 116
R 161 309 000 **R 161 309 200**	M09	4		13	-	-	5.41	R 282 223 000	R 282 235 011

* To crimp the ferrule you can choose : ⇒ either one standard crimp tool with included dies.
⇒ or the MIL crimp tool and its separated dies.

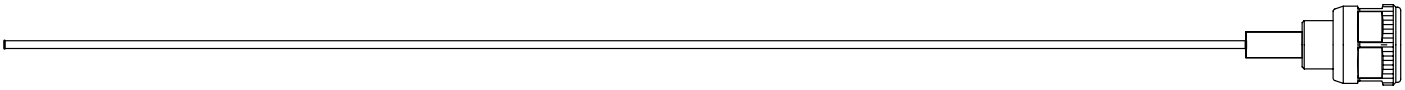
MATCHING P/N WITH CRIMP TOOLS



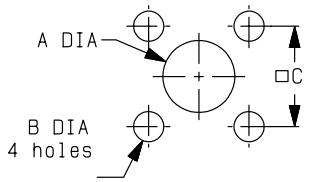
P/N	Mounting	Cable strip dimensions			Center contact		Ferrule*		
		a	b	c	Hex.	Crimp tool	Hex.	Standard crimp tools P/N (dies included)	MIL Crimp tool R 282 293 000 + dies P/N
R 161 311 200 **R 161 311 300**	M09	4.5	8	14	-	-	5.41	R 282 223 000	R 282 235 011
R 161 329 130 **R 161 329 000** **R 161 329 200**	M12				1.73	R 282 223 000			
R 161 331 000	M10	5	8	14	2.54	R 282 231 000	10.54	R 282 231 000	R 282 235 116
R 161 331 060	M11		9	15	-	-			
R 161 331 200	M10		8	14	2.54	R 282 231 000			
R 161 331 400	M11	4	11	17	-	-	15.49	-	R 282 235 166 Y1168 DANIELS
R 162 075 000	M33	5	8	14	1.73	R 282 223 000	10.54	R 282 231 000	R 282 235 116 Y116 DANIELS
R 162 084 000		4.5	8	14			6.48	R 282 223 000	R 282 235 013
R 162 088 000			7.5	17			10.54	R 282 231 000	R 282 235 116 Y116 DANIELS
R 162 184 000			8	14			6.48	R 282 223 000	R 282 235 013
R 162 185 000 **R 162 187 000**			7.5	17			10.54	R 282 231 000	R 282 235 116 Y116 DANIELS
R 162 239 000		5	8	14			6.48	R 282 223 000	R 282 235 013
R 162 241 000 **R 162 243 000**		4.5	7.5	17			10.54	R 282 231 000	R 282 235 116 Y116 DANIELS
R 162 335 000		5	8	14			6.48	R 282 223 000	R 282 235 013
R 162 336 000 **R 162 339 000**		4.5	7.5	17			10.54	R 282 231 000	R 282 235 116 Y116 DANIELS
R 280 651 030 **R 280 651 230**	M27	3	8	23.5	-	-	5.41	R 282 223 000	R 282 235 011
R 280 663 030 **R 280 664 030**					-	-	10.54	R 282 231 000	R 282 235 116 Y116 DANIELS

***** To crimp the ferrule you can choose : ⇒ either one standard crimp tool with included dies.
⇒ or the MIL crimp tool and its separated dies.

PANEL DRILLING

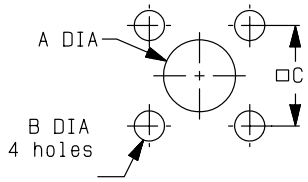


P01



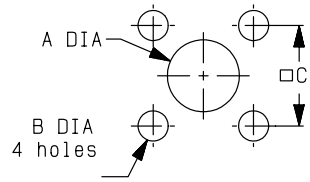
	MM		INCH	
	maxi	mini	maxi	mini
A	16.3	16.1	0.642	0.634
B	3.30	3.20	0.13	0.126
C	18.35	18.15	0.722	0.715

P02



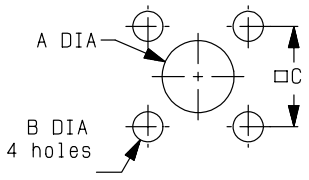
	MM		INCH	
	maxi	mini	maxi	mini
A	15.1	14.9	0.594	0.587
B	3.30	3.20	0.13	0.126
C	18.35	18.15	0.722	0.715

P03



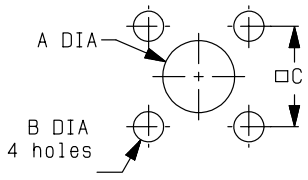
	MM		INCH	
	maxi	mini	maxi	mini
A	9.40	9.20	0.37	0.362
B	3.30	3.20	0.13	0.126
C	12.8	12.6	0.504	0.496

P04



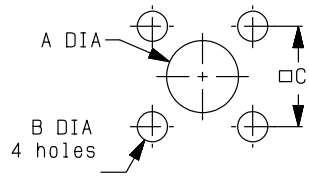
		MM		INCH	
		maxi	mini	maxi	mini
A	Front	21.7	21.5	0.854	0.846
	Rear	19.7	19.5	0.776	0.768
B		3.30	3.20	0.13	0.126
C		18.35	18.15	0.722	0.715

P05



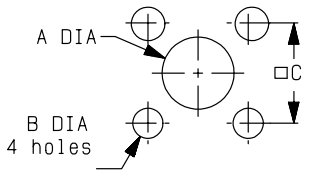
		MM		INCH	
		maxi	mini	maxi	mini
A	Front	16.3	16.1	0.642	0.634
	Rear	18	17.8	0.709	0.701
B		3.30	3.20	0.13	0.126
C		18.35	18.15	0.722	0.715

P06



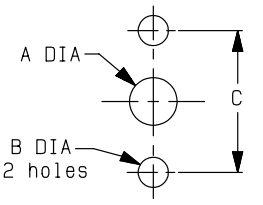
		MM		INCH	
		maxi	mini	maxi	mini
A	Front	16.3	16.1	0.642	0.634
	Rear	19.7	19.5	0.776	0.768
B		3.30	3.20	0.13	0.126
C		18.35	18.15	0.722	0.715

P07



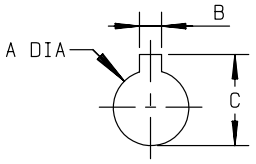
		MM		INCH	
		maxi	mini	maxi	mini
A	Front	16.3	16.1	0.642	0.634
	Rear	15.1	14.9	0.594	0.587
B		3.30	3.20	0.13	0.126
C		18.35	18.15	0.722	0.715

P08



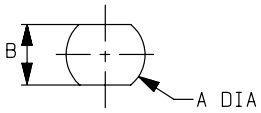
	MM		INCH	
	maxi	mini	maxi	mini
A	5	4.80	0.197	0.189
B	3.30	3.20	0.13	0.126
C	18.1	17.9	0.713	0.705

P09



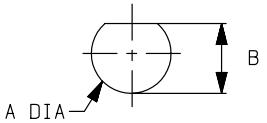
	MM		INCH	
	maxi	mini	maxi	mini
A	14.3	14.1	0.563	0.555
B	2.30	2.20	0.091	0.087
C	17	16.8	0.669	0.661

P10



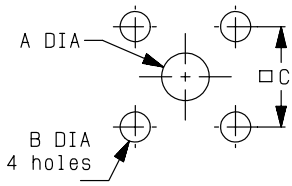
	MM		INCH	
	maxi	mini	maxi	mini
A	16.1	16	0.634	0.63
B	13.7	13.6	0.539	0.535

P11



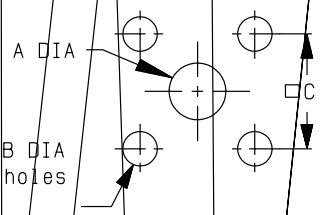
	MM		INCH	
	maxi	mini	maxi	mini
A	14.3	14.1	0.563	0.555
B	13.8	13.6	0.543	0.535

P12



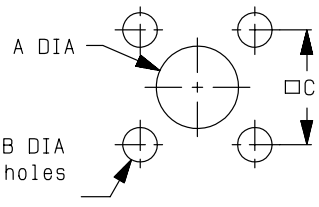
	MM		INCH	
	maxi	mini	maxi	mini
A	1.45	1.35	0.057	0.053
B	3.23	3.13	0.127	0.123
C	10.21	10.11	0.402	0.398

P13



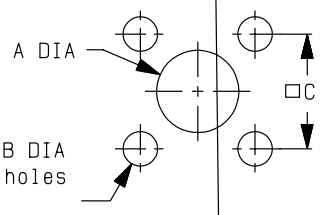
	MM		INCH	
	maxi	mini	maxi	mini
A	4.2	4.1	0.165	0.161
B	2.7	2.6	0.106	0.102
C	8.69	8.59	0.342	0.338

P14



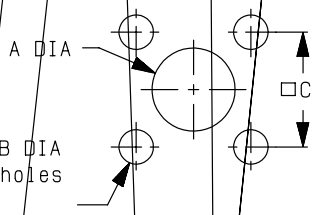
		MM		INCH	
		maxi	mini	maxi	mini
	Front	16.3	16.1	0.642	0.634
	Rear	12.5	12.3	0.492	0.484
	B	3.3	3.2	0.13	0.126
	C	18.35	18.15	0.722	0.715

P15



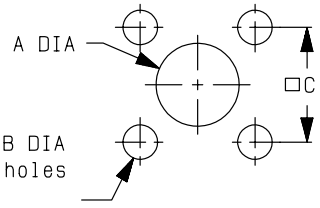
		MM		INCH	
		maxi	mini	maxi	mini
A	Front	16.3	16.1	0.642	0.634
	Rear	4.2	4.1	.165	0.161
	B	3.3	3.2	0.13	0.126
	C	18.35	18.15	0.722	0.715

P16



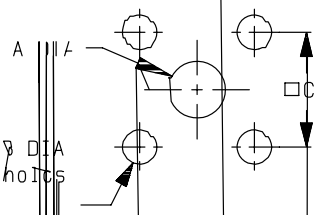
	MM		INCH	
	maxi	mini	maxi	mini
A	29.5	29.3	1.161	1.153
B	3.7	3.6	0.146	0.142
C	24.8	24.7	0.976	0.972

P17



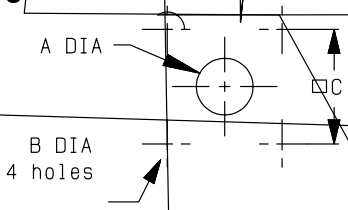
MM		INCH	
maxi	mini	maxi	mini
12.5	12.3	0.492	0.484
3.3	3.2	0.13	0.126
18.35	18.15	0.722	0.715

P18



	MM		INCH	
	maxi	mini	maxi	mini
A	4.2	4.1	0.165	0.161
B	3.3	3.2	0.13	0.126
C	18.35	18.15	0.722	0.715

P19



	MM		INCH	
	maxi	mini	maxi	mini
A	7.1	7	0.279	0.275
B	3.4	3.3	0.134	0.13
C	18.35	18.15	0.722	0.715

P20

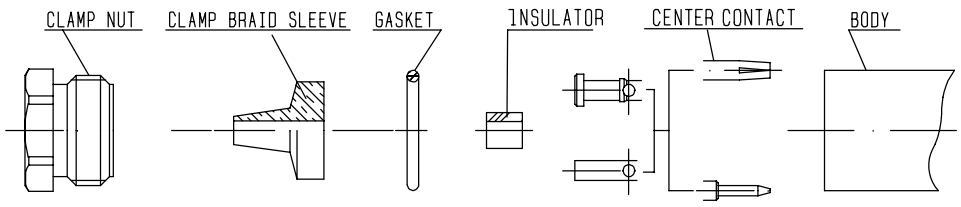
P21

P22

P23PANEL DRILLINGN

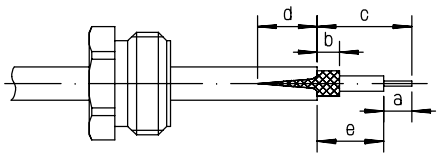
ASSEMBLY INSTRUCTIONS

M 01



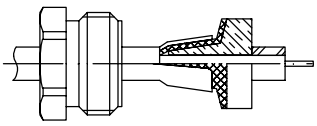
CONNECTORS	Stripping length				
	a	**b**	**c**	**d**	**e**
R161 004 000 **R161 252 000** **R161 321 000** **R161 322 000**	4	2	8	2	4
R161 325 000		7.5			1

1



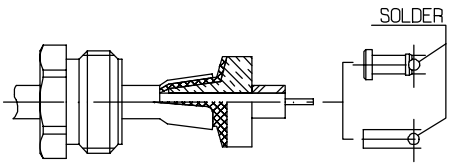
1.1 Slide clamp nut onto cable.
1.2 Strip the cable.
1.3 Cut the jacket (2 slots) appart if necessary.

2



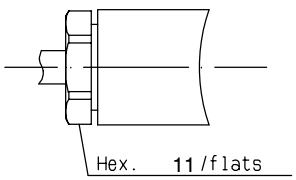
2.1 Slide the clamp braid sleeve between cable dielectric and braid
2.2 Cut the braid flush with the clamp braid sleeve.
2.3 Slide the insulator.

3



3.1 Solder the cable inner conductor into center contact.
3.2 Slide the back nut over the clamp assembly.

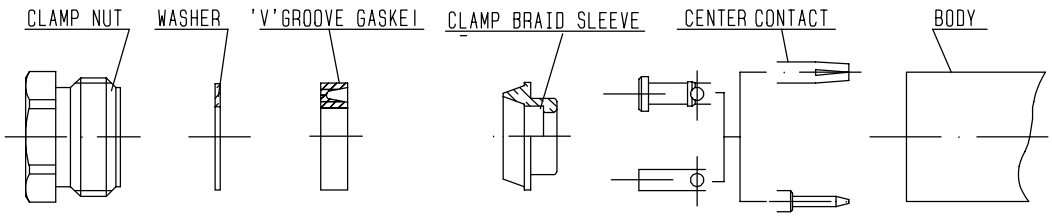
4



4.1 Mount the gasket into the connector.
4.2 Screw sub-assembly into the connector body.
(recommended coupling torque 13.27 in.lb - 150 Ncm).

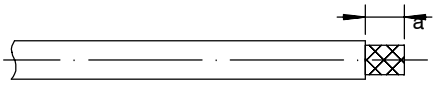
ASSEMBLY INSTRUCTIONS

M 02



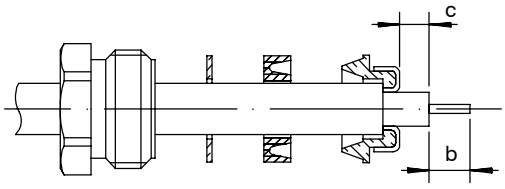
CONNECTORS	Stripping length		
	a	**b**	**c**
R161 006000	7.5	4	1
R162 012 000 **R162 212 000** **R162 262 000** **R162 328 000**	8		2

1



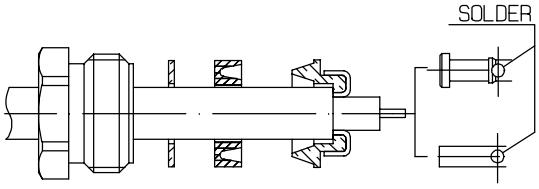
1.1 Strip the cable.

2



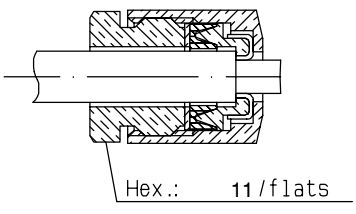
2.1 Slide the clamp nut, the washer and the 'V' groove gasket onto the cable.
2.2 Slide clamp braid sleeve over braid.
2.3 Fold back braid and trim off excess of braid.
2.4 Trim back dielectric as shown.

3



3.1 Solder the cable inner conductor into center contact.

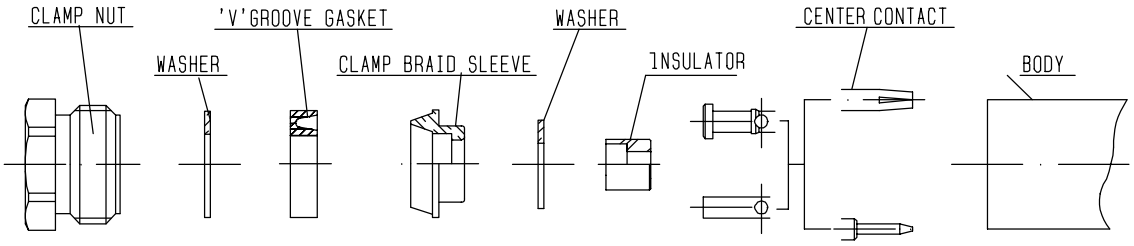
4



4.1 Screw sub-assembly into the connector body.
(recommended coupling torque 39.82 in.lb - 450 Ncm)

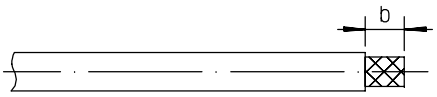
ASSEMBLY INSTRUCTIONS

M 03



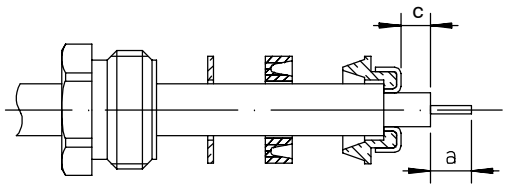
CONNECTORS	Stripping length		
	a	**b**	**c**
R161 010 000	4	7.5	2
R161 206 000 **R161 256 000**			1

1



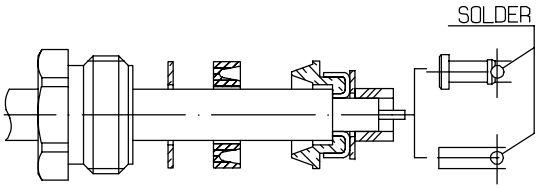
1.1 Strip the cable.

2



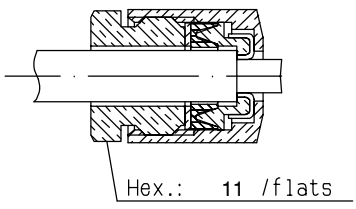
2.1 Slide the clamp nut, the washer and the 'V' groove gasket onto the cable.
2.2 Slide clamp braid sleeve over braid.
2.3 Fold back braid and trim off excess of braid.
2.4 Trim back dielectric as shown.

3



3.1 Slide the washer and the insulator onto the dielectric.
3.2 Solder the cable inner conductor into center contact.

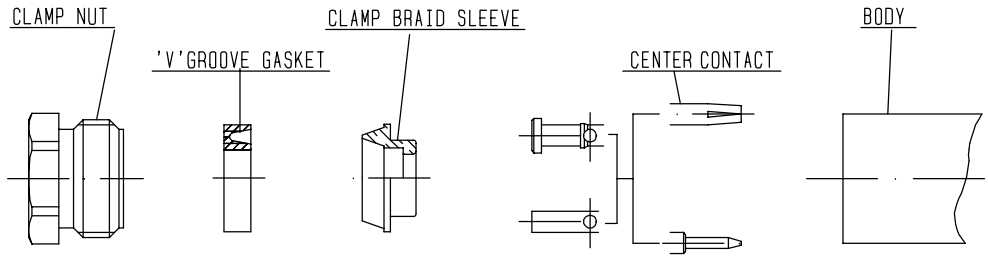
4



4.1 Screw sub-assembly into the connector body.
(recommended coupling torque 39.83 in.lb - 450 cm).

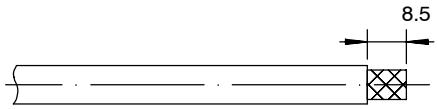
ASSEMBLY INSTRUCTIONS

M 04



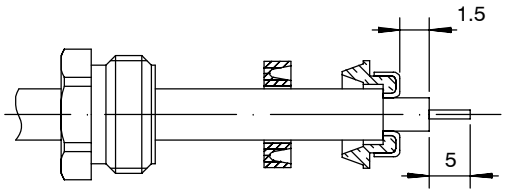
CONNECTORS	**R161 020 000** **R161 332 000**	**R162 017 000** **R162 217 000** **R162 267 000** **R162 332 000**

1



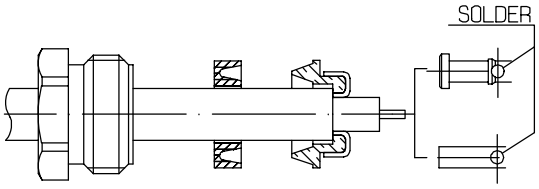
1.1 Strip the cable.

2



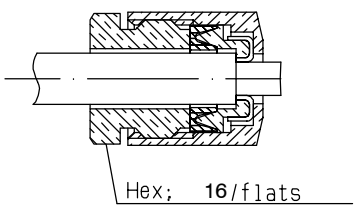
2.1 Slide the clamp nut and the 'V' groove gasket onto the cable.
2.2 Slide clamp braid sleeve over braid.
2.3 Fold back braid and trim off excess of braid.
2.4 Trim back dielectric as shown.

3



3.1 Solder the cable inner conductor into center contact.

4



4.1 Screw sub-assembly into the connector body.
(recommended coupling torque 70.87 in.lb - 800 Ncm).

N

ASSEMBLY INSTRUCTIONS

M 05

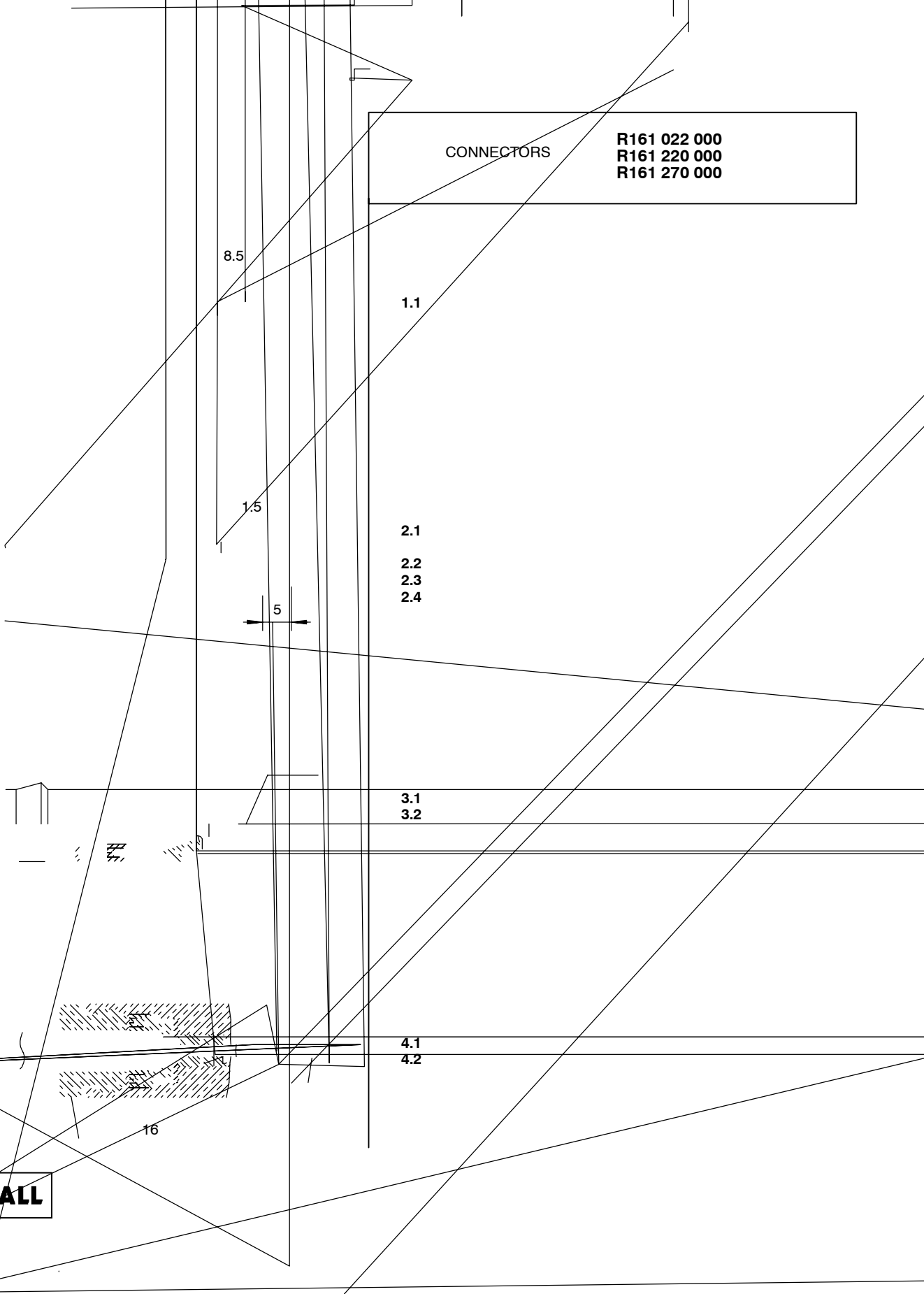
CONNECTORS	R161 022 000 R161 220 000 R161 270 000

1

2

3

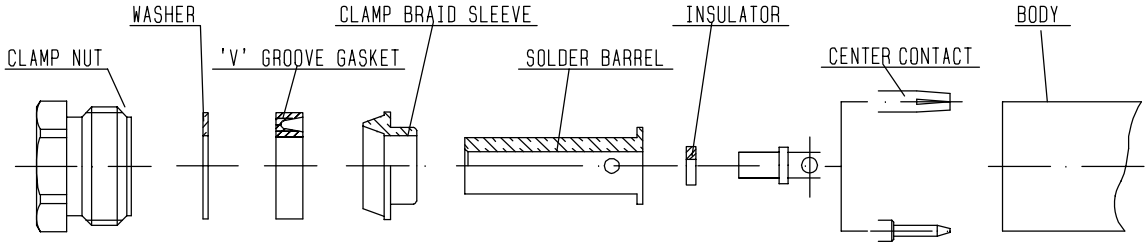
4



RADIALL

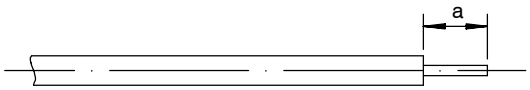
ASSEMBLY INSTRUCTIONS

M 06



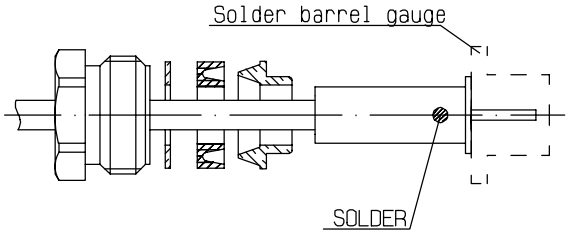
CONNECTORS	Stripping length a	Stripping tool	Trimmer	Solder barrel gauge	Positioner
R161 050 000 **R161 050 020**	3.17	R282 051 000	R282 063 000	R282 744 300	R282 744 261
R161 052 000 **R161 052 020**	4.5	R282 053 000	R282 066 010	R282 744 320	R282 744 261
R161 227 000 **R161 227 020** **R161 277 000** **R161 277 020** **R161 323 000** **R161 323 020** **R161 323 200**	4.5	R282 053 000	R282 066 010	R282 744 320	R282 744 260

1



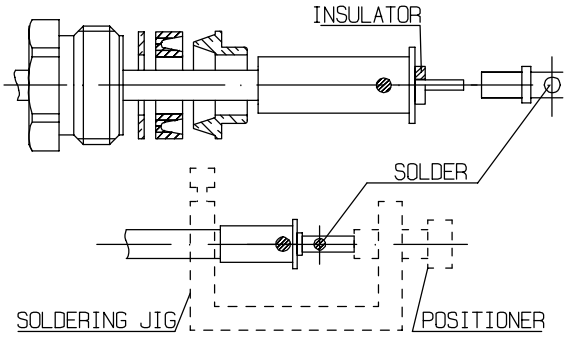
1.1 Take the tool kit: R 282 125 010 (or spare tools).
1.2 Strip the dielectric of the cable with stripping tool
1.3 Trim cable center conductor with trimmer.
1.4 Clean the cable.

2



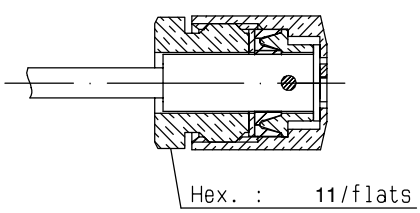
2.1 Slide the clamp nut, the washer, the 'V' groove gasket, the clamp braid sleeve and the solder barrel onto the cable.
2.2 Position solder barrel flush against solder barrel gauge and solder to the cable or align with outer the conductor.

3

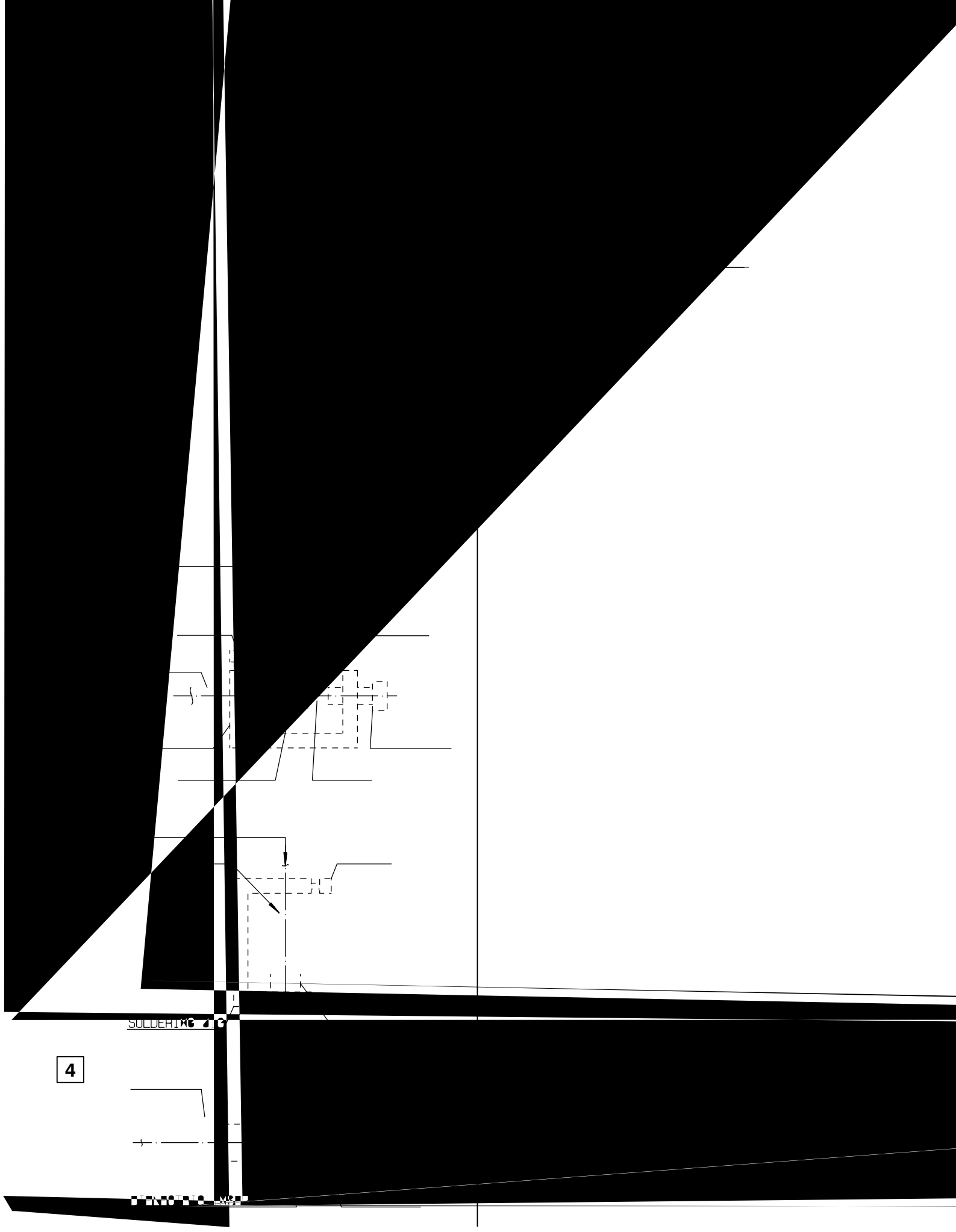


3.1 Once cooled, remove the solder barrel gauge.
3.2 Cut the dielectric flush to clamp braid sleeve.
3.3 Slide the insulator onto the cable inner conductor.
3.4 Slide the center contact onto the cable inner conductor against insulator.
3.5 Fit the cable assembly onto the soldering jig R 282 740 030 and the positioner.
3.6 Tighten cable and solder the center contact.

4

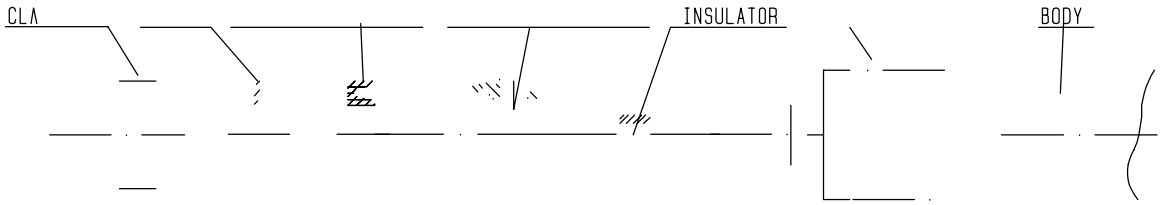


4.1 Screw sub-assembly into the connector body.
(recommended coupling torque 22.12 in.lb - 250 Ncm).

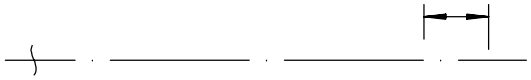

SOLDERING
4

ASSEMBLY INSTRUCTIONS

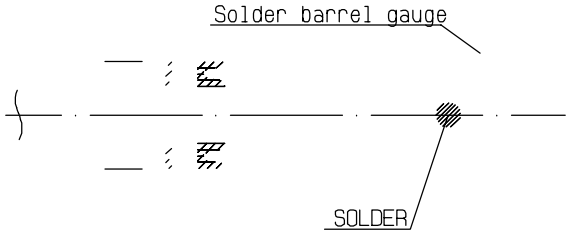
M 08



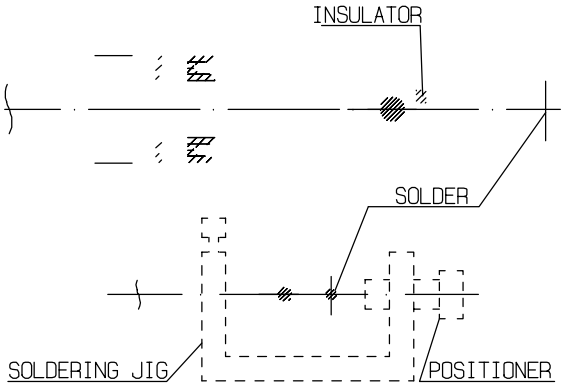
1



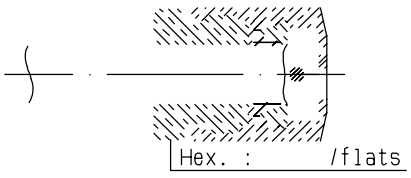
2



3

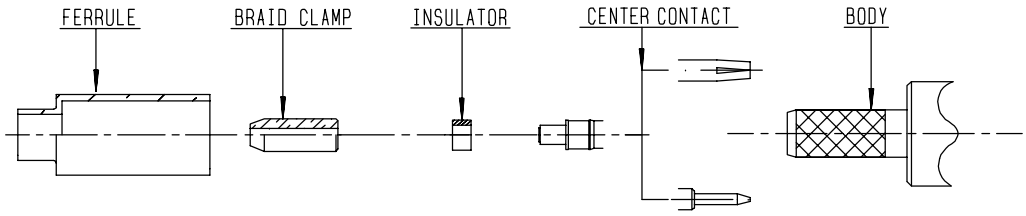


4



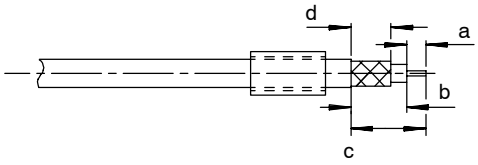
ASSEMBLY INSTRUCTIONS

M 09



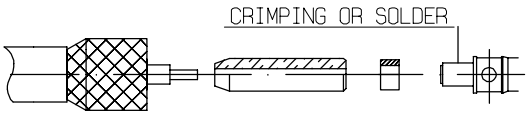
CONNECTORS	Stripping length				Crimping tool		
	a	b	c	d	Dies included	MIL standard R282 293 000 (M22520/5-01) + Dies	Center contact
R161 071 000 **R161 281 000** **R161 309 000** **R161 309 200**	4	9	13		R282 223 000 Hex : 5.41	R282 235 011 (M22520/5-11)	R282 223 000 Hex : 1.73
R161 072 000 **R161 281 300** **R161 311 200** **R161 311 300**	4.5	9.5	14	8			

1



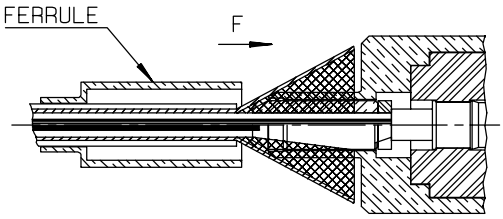
1.1 Slide the ferrule onto the cable.
1.2 Strip the cable.

2



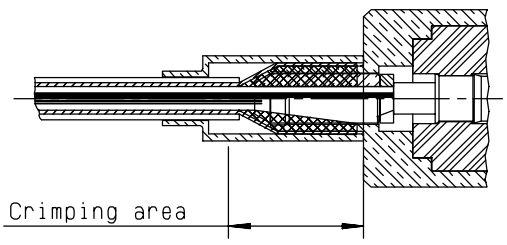
2.1 Fan the braid.
2.2 Slide the braid clamp and insulator between the dielectric and the braid.
2.3 Slide on center contact until it bottoms against cable dielectric.
2.4 Crimp center contact with crimping tool or solder.

3



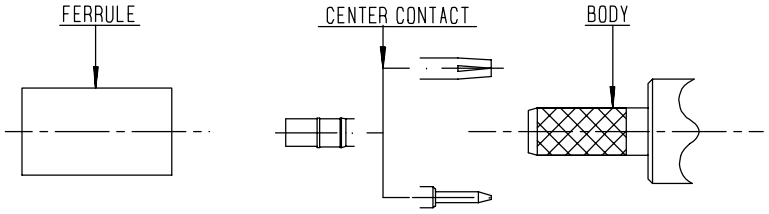
3.1 Slide cable dielectric into the body while gently ginding the braid over the knurl.
3.2 Push until the dielectric clicks into position.
3.3 Slide ferrule over the braid. *(In direction F).*

4



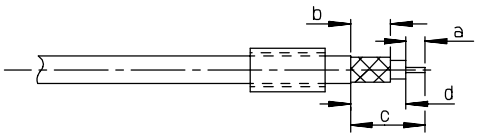
4.1 Crimp the ferrule with crimping tool.
4.2 Cut the excess of braid.

M 10



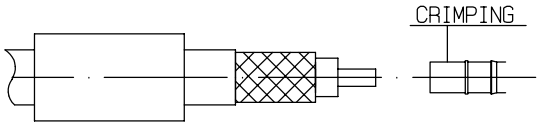
CONNECTORS	Stripping length				Crimping tool	
	a	b	c	d	Dies included	MIL standard R282 293 000 (M22520/5-01) + Dies
R161 075 000 **R161 088 000** **R161 241 000** **R161 243 000** **R161 286 000** **R161 286 200** **R161 331 000** **R161 331 200**	5	8	14	9	R282 231 000 Hex : 2.54 - 10.54	R282 235 116 Y116 Daniels
R161 075 060 **R161 076 000**		9	15	10		

1



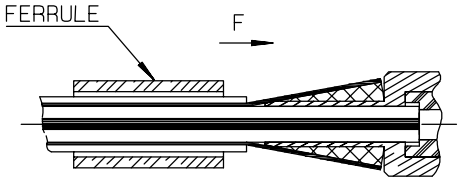
1.1 Slide the ferrule onto the cable.
1.2 Strip the cable.

2



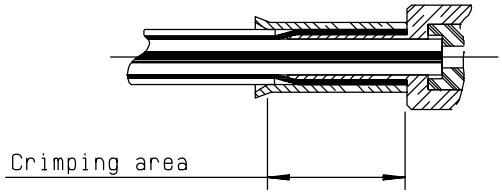
2.1 Slide on center contact until it bottoms against cable dielectric.
2.2 Crimp center contact with crimping tool.

3



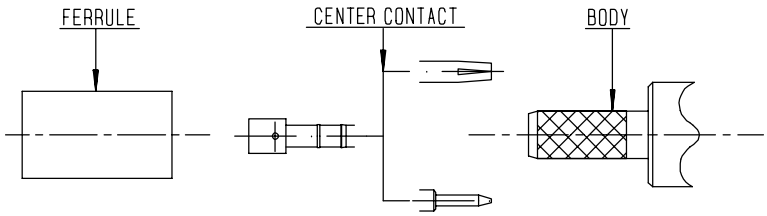
3.1 Fan the braid.
3.2 Slide cable dielectric into the body while gently ginding the braid over the knurl.
3.3 Push until the dielectric clicks into position.
3.4 Slide ferrule over the braid. *(In direction F).*

4



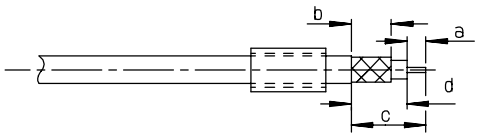
4.1 Crimp the ferrule with crimping tool.
4.2 Cut the excess of braid.

M 11



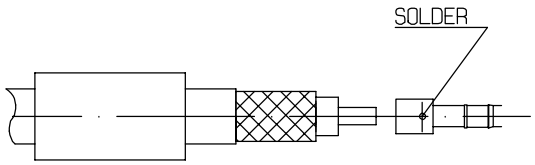
CONNECTORS	Stripping length				Crimping tool	
	a	b	c	d	Dies included	MIL standard R282 293 000 (M22520/5-01) + Dies
R161 079 220 **R161 331 400**	4	11	17	13		R282 235 166 Y1668 Daniels Hex : 15.49
R161 331 060	5	9	15	10	R282 231 000 Hex :10.54	R282 235 116 Y116 Daniels

1



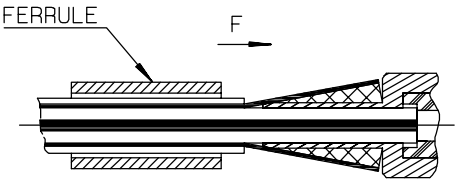
1.1 Slide onto the cable the ferrule.
1.2 Strip the cable.

2



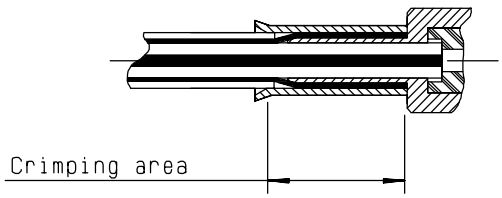
2.1 Slide on center contact until it bottoms against cable dielectric.
2.2 Solder center contact.

3



3.1 Fan the braid.
3.2 Slide cable into the body until contact snaps into place.
3.3 Slide ferrule over the braid. *(In direction F).*

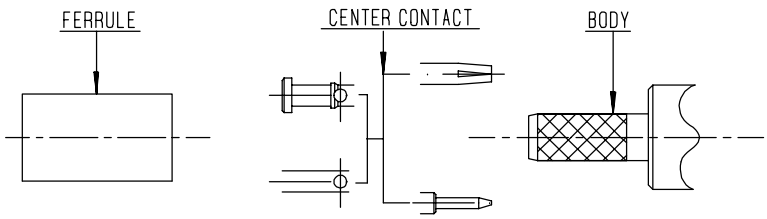
4



4.1 Crimp the ferrule with crimping tool.
4.2 Cut the excess of braid.

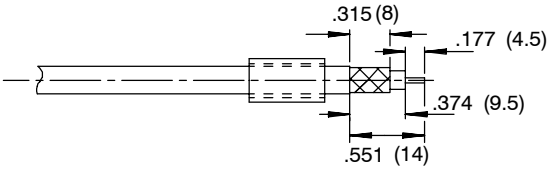
ASSEMBLY INSTRUCTIONS

M 12



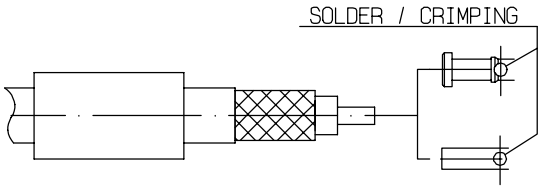
CONNECTORS			Crimping tool	
			Dies included	**MIL standard R282 293 000 (M22520/5-01) + Dies**
R161 082 000	**R161 238 000**	**R161 329 000**	R282 223 000 Hex : 1.73 - 5.41	R282 235 011 (M22520/5-11)
R161 082 200	**R161 282 000**	**R161 329 130**		
R161 083 000	**R161 283 000**	**R161 329 200**		
R161 237 000				

1



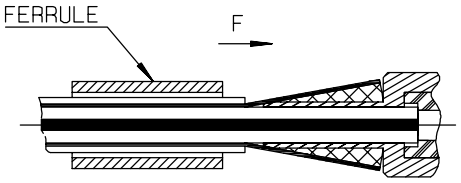
1.1 Slide onto the cable the ferrule.
1.2 Strip the cable.

2



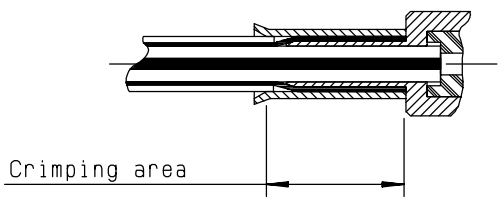
2.1 Slide on center contact until it bottoms against cable dielectric.
2.2 Solder or crimp center contact with crimping tool.

3



3.1 Fan the braid.
3.2 Slide cable into the body until bottoms against insulator.
3.3 Slide ferrule over the braid.*(In direction F).*

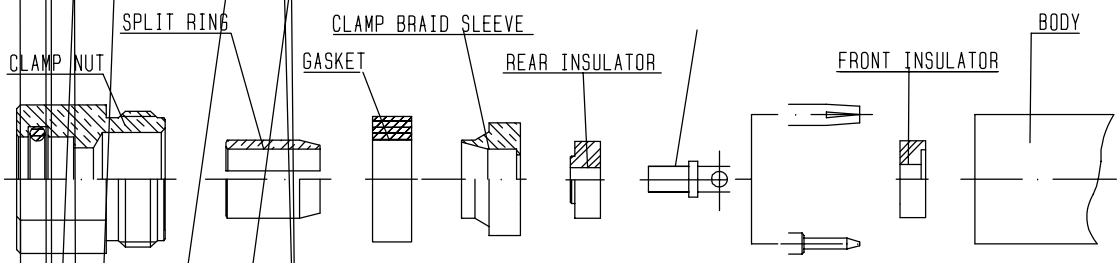
4



4.1 Crimp the ferrule with crimping tool.
4.2 Cut the excess of braid.

ASSEMBLY INSTRUCTIONS

M 13



CONNECTORS	**R161 090 000**

1

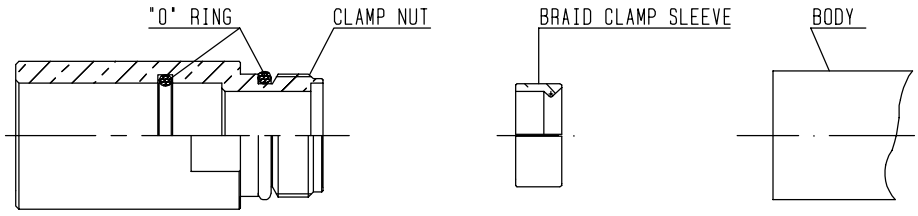
2

3

4

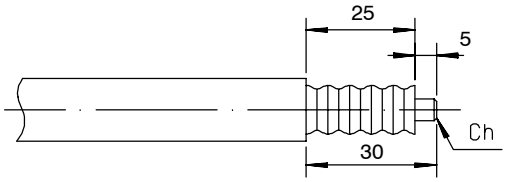
ASSEMBLY INSTRUCTIONS

M 14



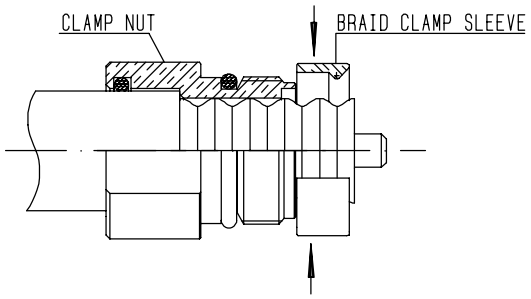
CONNECTORS	**R161 091 000** **R161 291 150**

1



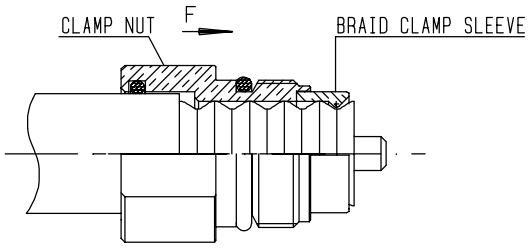
1.1 Strip the cable.
1.2 Cut the external conductor and dielectric on top of the wave as shown.
1.3 Deburr outer conductor and make a .04 (1) chamfer on center conductor.

2



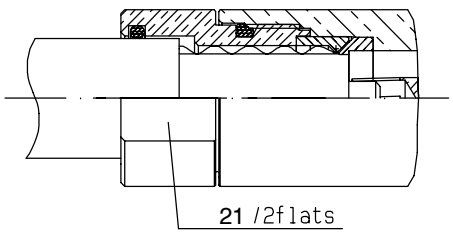
2.1 Slide the clamp nut until it bottoms the jacket.
2.2 Assemble the two half ring in the bottom of the wave of the outer conductor.

3



3.1 Slide back the clamp nut onto the two half ring.*(In direction F).*

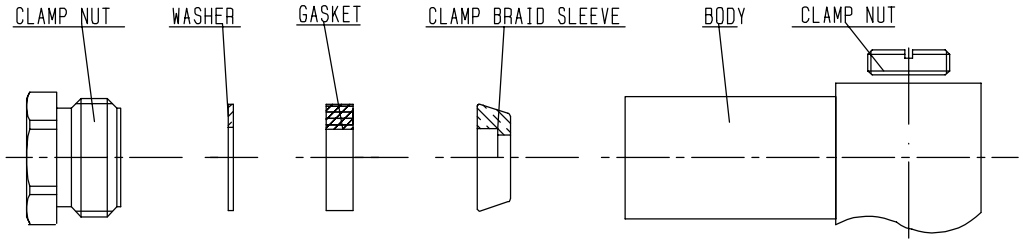
4



4.1 Screw sub-assembly into the connector body.
(recommended coupling torque 70.8 in.lb - 800 Ncm).

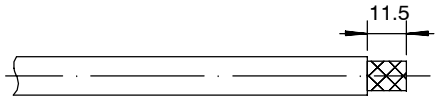
ASSEMBLY INSTRUCTIONS

M 15



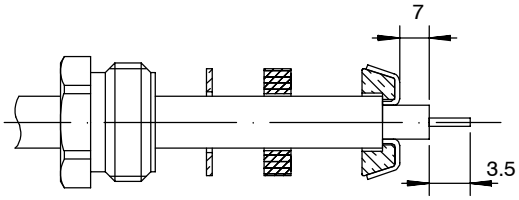
CONNECTORS **R161 157 000**

1



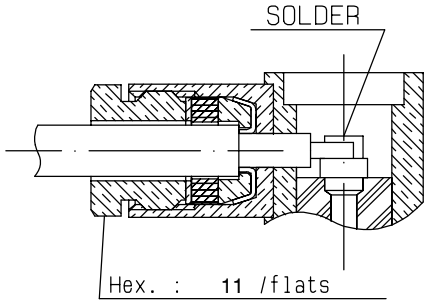
1.1 Strip the cable.

2



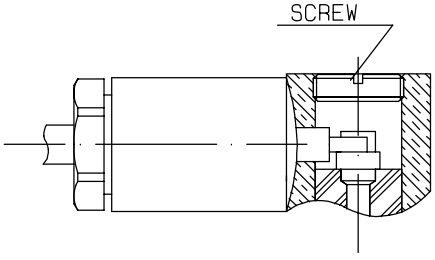
2.1 Slide the clamp nut, the washer and the gasket onto the cable.
2.2 Slide clamp braid sleeve over braid.
2.3 Fold back braid and trim off excess of braid.
2.4 Trim back dielectric as shown.

3



3.1 Screw sub-assembly into the connector body.
(recommended coupling torque 13.27 in.lb - 150 Ncm).
3.2 Solder center contact.

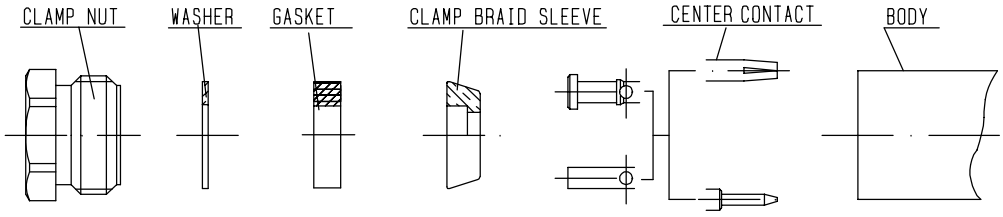
4



4.1 Screw clamp nut into the body.

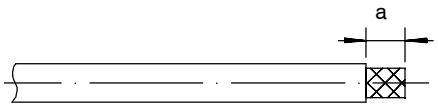
ASSEMBLY INSTRUCTIONS

M 16



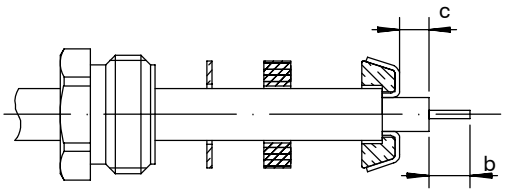
CONNECTORS	Stripping length		
	a	**b**	**c**
R161 168 000	10	4	2.5
R162 013 000 **R162 213 000**		4.5	1.5
R162 162 000 **R162 168 000**	8.5	4	1

1



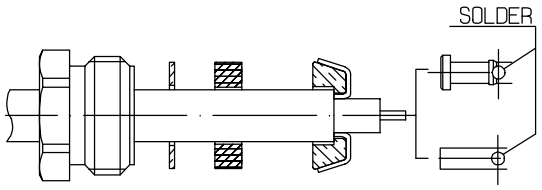
1.1 Strip the cable.

2



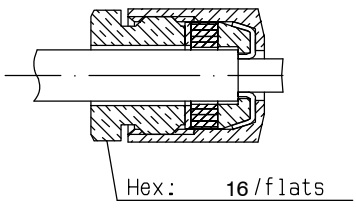
2.1 Slide the clamp nut, the washer and the gasket onto the cable.
2.2 Slide clamp braid sleeve over braid.
2.3 Fold back braid and trim off excess of braid.
2.4 Trim back dielectric as shown.

3



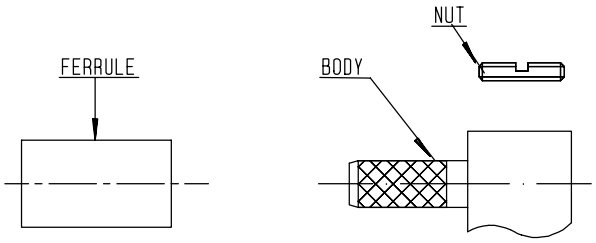
3.1 Solder the cable inner conductor into center contact.

4



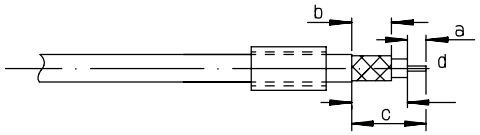
4.1 Screw sub-assembly into the connector body.
(recommended coupling torque 44.25 in.lb - 500 Ncm).

M 18



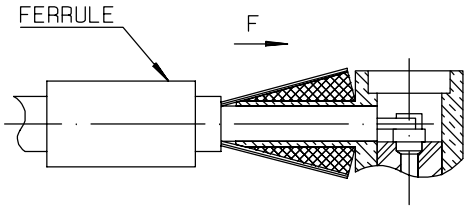
CONNECTORS	Stripping length				Crimping tool	
	a	b	c	d	Dies included	MIL standard R282 293 000 (M22520/5-01) + Dies
R161 181 000	3.5	7	18	14.5	R282 211 000 Hex : 3.25	R282 235 003 (M22520/5-03)
R161 181 300					R282 271 000 Hex : 3.84	R282 235 037 (M22520/5-37)
R161 182 000 R161 182 200 R161 183 000					R282 223 000 Hex : 5.41	R282 235 011 (M22520/5-11)
R161 184 000	2.5	10	22.5	20	R282 231 000 Hex : 10.54	R282 235 116 (Y116 Daniels)
R161 184 036		16.7	29.2	26.7		
R161 186 000 R161 186 137		10	22.5	20		

1



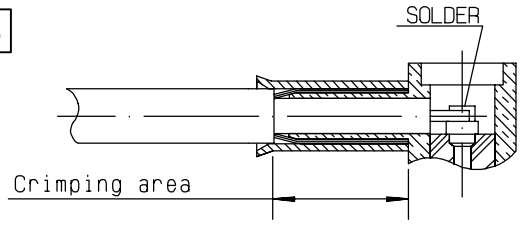
1.1 Slide onto the cable the ferrule.
1.2 Strip the cable.

2



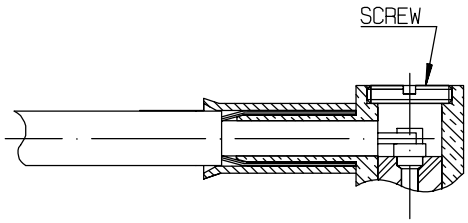
2.1 Fan the braid.
2.2 Push connector body under the braid.
2.3 Slide the ferrule on the braid. *(In direction F).*

3



3.1 Crimp the ferrule with crimping tool.
3.2 Solder inner conductor.

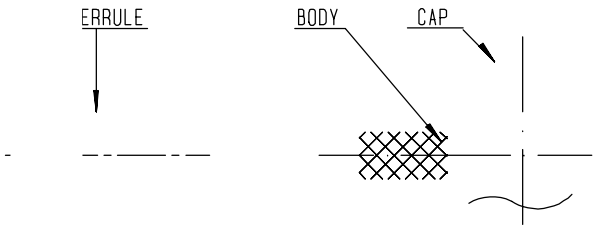
4



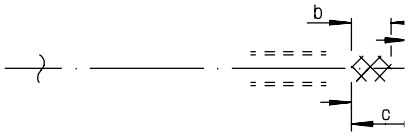
4.1 Screw the nut into the body.

ASSEMBLY INSTRUCTIONS

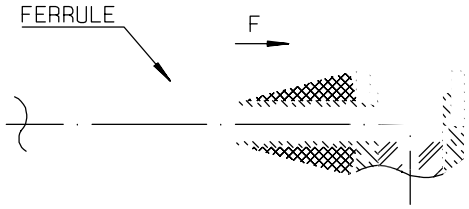
M 19



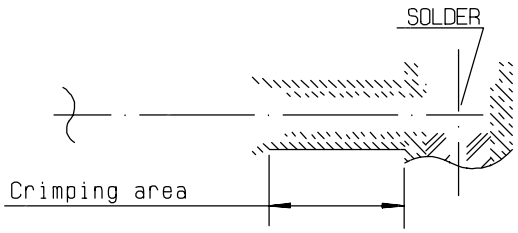
1



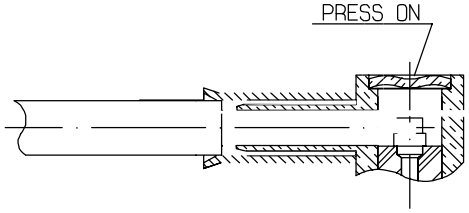
2



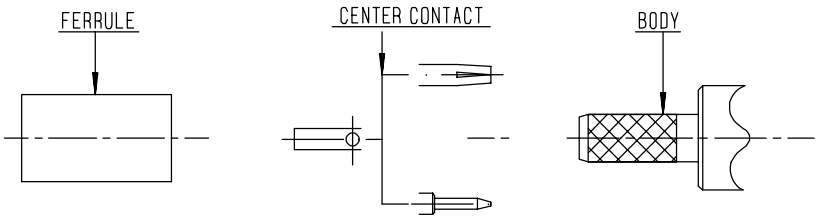
3



4

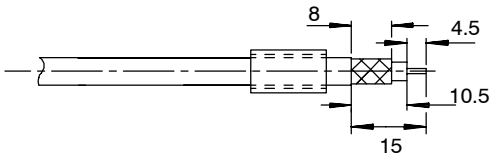


M 20



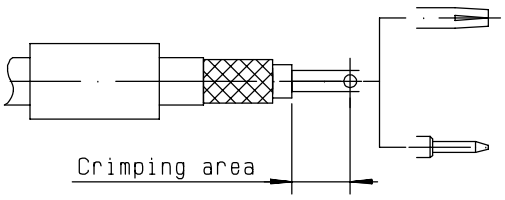
CONNECTORS	Crimping tool	
	Dies included	**MIL standard R282 293 000 (M22520/5-01) + Dies**
R161 185 000 **R161 187 000**	R282 231 000 Hex : 2.54 - 10.54	R282 235 116 Y116 Daniels

1



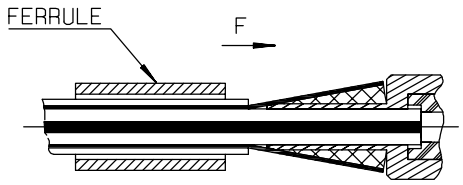
1.1 Slide onto the cable the ferrule.
1.2 Strip the cable.

2



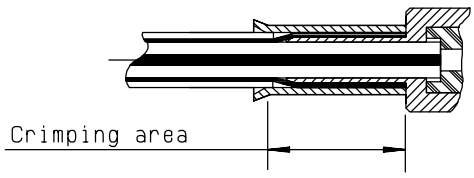
2.1 Slide on the center contact until it bottoms against cable dielectric.
2.2 Crimp center contact, with crimping tool.

3



3.1 Fan the braid.
3.2 Slide cable into the body until bottoms against insulator.
3.3 Slide ferrule over the braid. *(In direction F).*

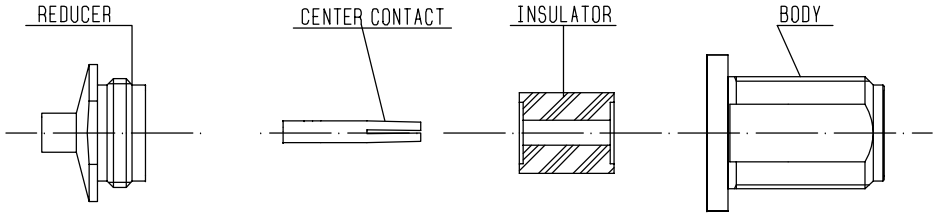
4



4.1 Crimp the ferrule with crimping tool.
4.2 Cut the excess of braid.

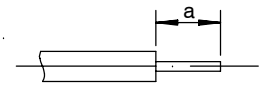
ASSEMBLY INSTRUCTIONS

M 21



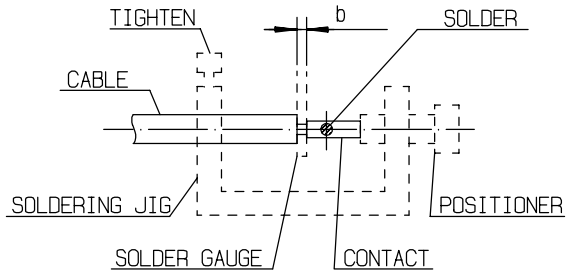
CONNECTORS	Stripping length a	Stripping tool	Trimmer	Solder gauge [thickness b]	Positioner
R161 276 300 **R161 335 200**	3.17	R282 051 000	R282 063 000	R282 862 090 [0.7]	R282 744 300
R161 226 020 **R161 277 300** **R161 336 000** **R161 336 200**	4.5	R282 053 000	R282 066 010		R282 744 310
R161 278 300 **R161 337 200**		R282 054 000	R282 074 020	R282 862 080 [0.45]	R282 744 330

1



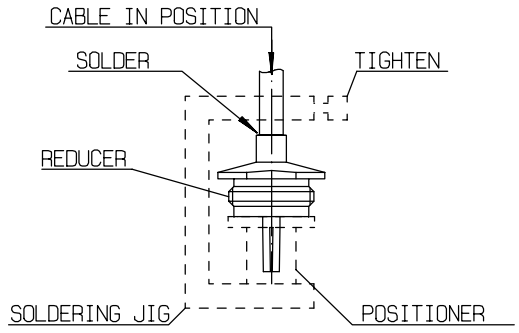
1.1 Take the tool kit : R282 125 010.
1.2 Strip the dielectric of the cable with stripping tool.
1.3 Trim the cable center conductor with trimmer.
1.4 Clean the cable.
1.5 Screw the reducer on the cable.

2



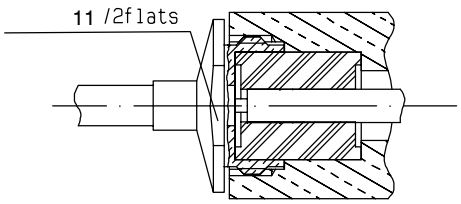
2.1 Screw the positioner R282 744 060 onto the soldering jig R282 740 030.
2.2 Slide contact into positioner.
2.3 Insert solder gauge between contact and cable.
2.4 Tighten and solder the contact.

3



3.1 After cooling remove cable assembly from the jig.
3.2 Put positioner on the soldering jig.
3.3 Slide cable into the reducer until it bottoms against positioner.
3.4 Tighten.
3.5 Put 3 rings of solder around the cable and solder.

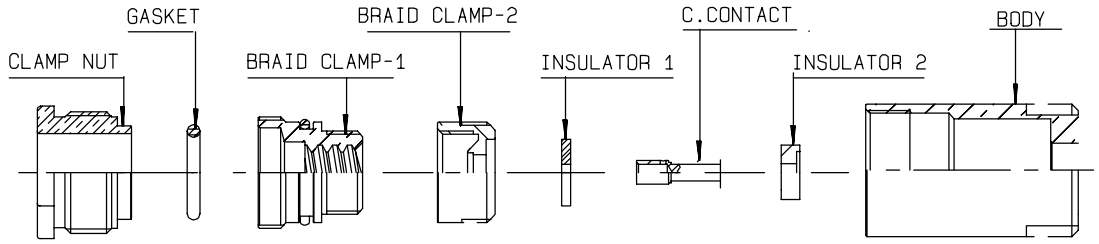
4



4.1 After cooling remove cable assembly from the jig.
4.2 Slide insulator into the center contact.
4.3 Screw sub-assembly into the connector body. (recommended coupling torque 13.27 in.lb – 150 Ncm).

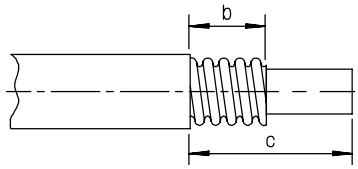
ASSEMBLY INSTRUCTIONS

M 22



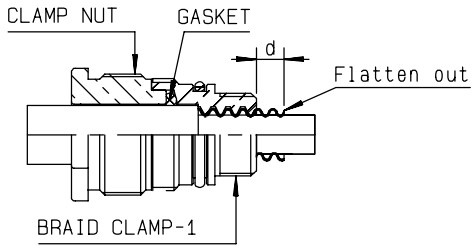
CONNECTORS	Stripping tool	Stripping length						
		a	b	c	d	e	g	h
R161 036 007 **R161 232 007** **R161 279 007** **R161 341 007**	R282 010 030	4.5	17	18.8	8	13	16	
R161 036 207 **R161 232 207** **R161 279 207** **R161 341 207**	R282 010 040	7.5	20.5	21.5	10	19	21	22
R161 037 020 **R161 232 407** **R161 279 407** **R161 341 407**	R282 010 050							

1



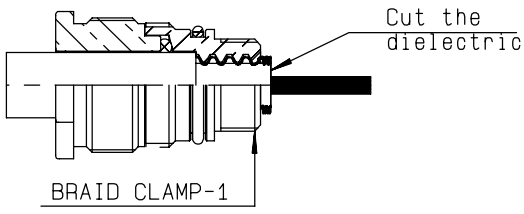
1.1 Mount the clamp nut and the gasket onto the cable.
1.2 Strip the cable with stripping tool..

2



2.1 Screw the braid-clamp 1 onto the spiral braid of the cable.
2.2 Tighten manualy.
2.3 Flatten out the screening cable on the braid-clamp 1.

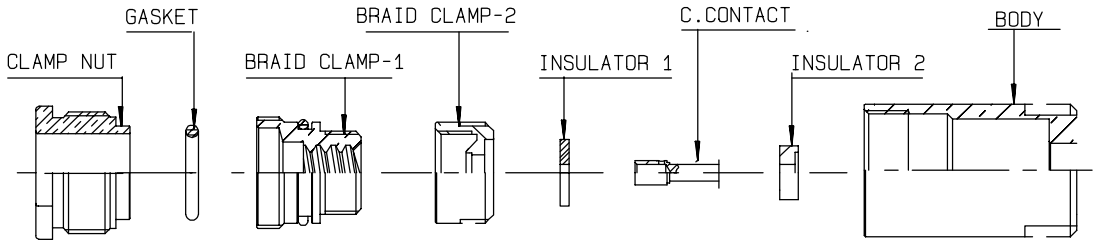
3



3.1 Cut the dielectric of the cable at the level of the braid-clamp 1.

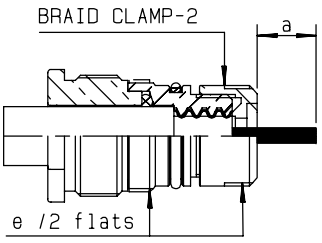
ASSEMBLY INSTRUCTIONS

M 22
(flg)



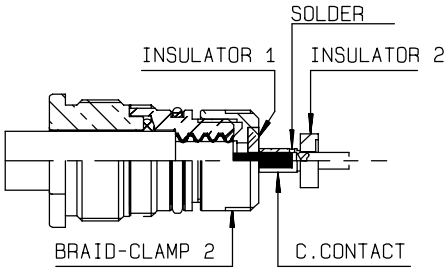
CONNECTORS	Stripping tool	Stripping length						
		a	b	c	d	e	g	h
R161 036 007 **R161 232 007** **R161 279 007** **R161 341 007**	R282 010 030	4.5	17	18.8	8	13	16	
R161 036 207 **R161 232 207** **R161 279 207** **R161 341 207**	R282 010 040	7.5	20.5	21.5	10	19	21	22
R161 037 020 **R161 232 407** **R161 279 407** **R161 341 407**	R282 010 050							

4



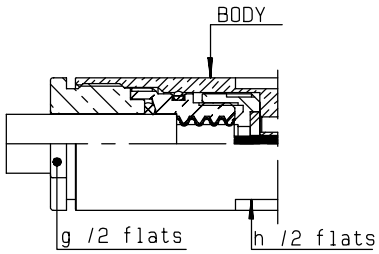
4.1 Screw the braid-clamp.
(recommended coupling torque 70.8 in.lb - 800 Ncm).

5



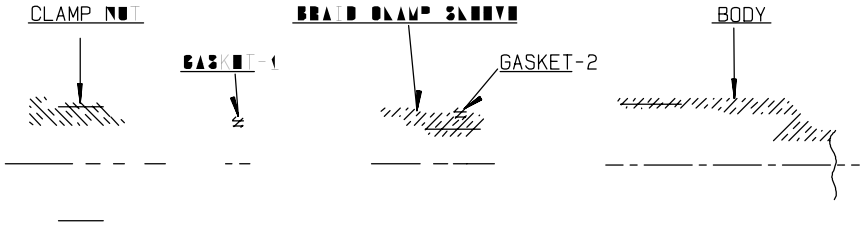
5.1 Slide the insulator 1 into the braid.
5.2 Slide the center contact on the cable inner conductor against the insulator-1.
5.3 Solder the center contact on the cable then slide the insulator-2 on it.

6

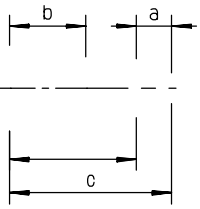


6.1 Slide the assembly onto the body.
(recommended coupling torque 70.8 in.lb - 800 Ncm).

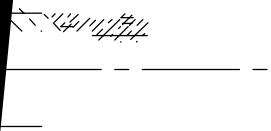
ASSEMBLY INSTRUCTIONS



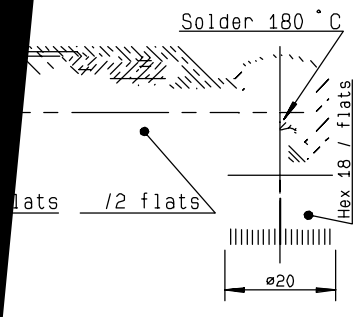
1



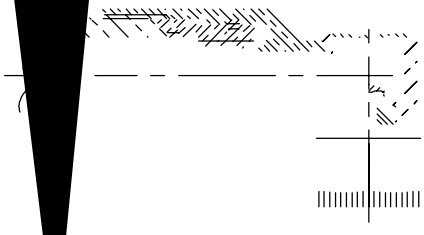
2



3

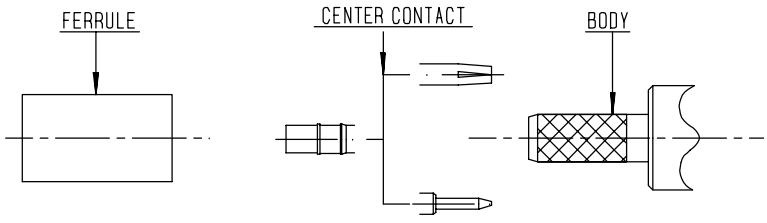


4



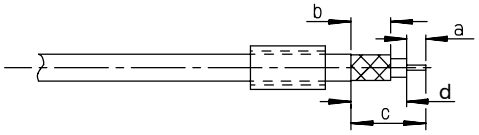
ASSEMBLY INSTRUCTIONS

M 24



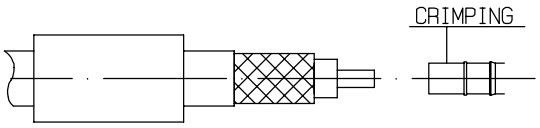
CONNECTORS	Stripping length				Hex.	Crimping tool	
	a	b	c	d		Dies included	MIL standard R282 293 000 (M22520/5-01) + Dies
R161 083 137	4.5	8	14	9.5	ferrule 5.41 center contact 1.73	R282 223 000	R282 235 011 (M22520/5-11)
R161 088 137	5			9	ferrule 10.54 center contact 2.54	R282 231 000	R282 235 116 (Y116 Daniels)

1



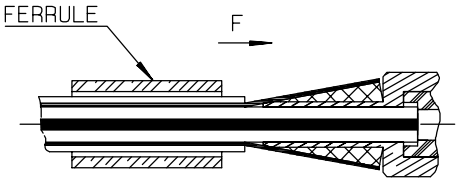
1.1 Slide onto the cable the ferrule.
1.2 Strip the cable.

2



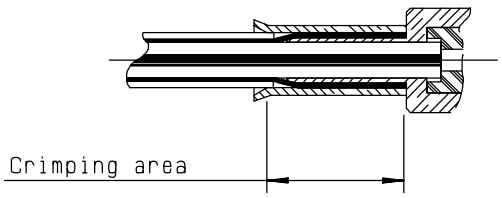
2.1 Slide on the center contact until it bottoms against cable dielectric.
2.2 Crimp center contact with crimping tool.

3



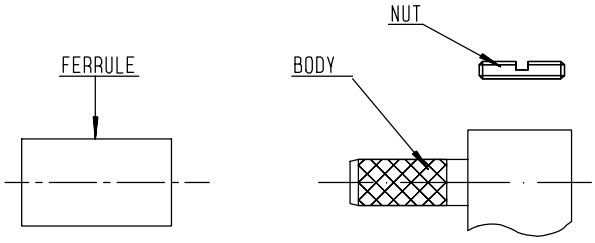
3.1 Fan the braid.
3.2 Slide cable dielectric into the body while gently ginding the braid over the knurl.
3.3 Push until the dielectric clicks into position.
3.4 Slide ferrule over the braid. *(In direction F).*

4



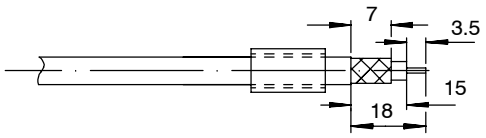
4.1 Crimp the ferrule with crimping tool.
4.2 Cut the excess of braid.

M 25



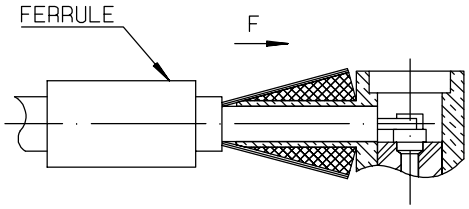
CONNECTORS	Crimping tool	
	Dies included	**MIL standard R282 293 000 (M22520/5-01) + Dies**
R161 183 137	R282 223 000 Hex : 5.41	R282 235 011 (M22520/5-11)

1



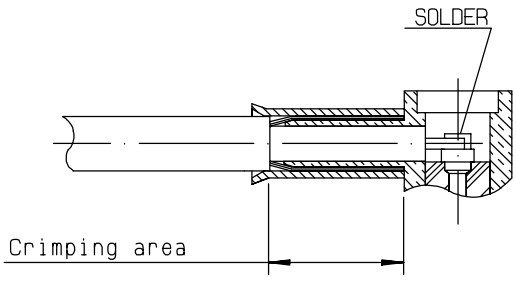
1.1 Slide the ferrule onto the cable.
1.2 Strip the cable.

2



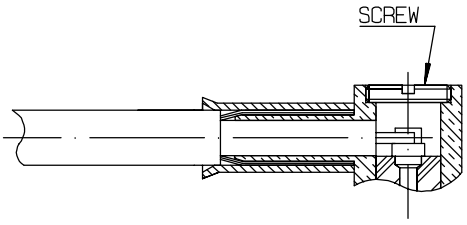
2.1 Fan the braid.
2.2 Push connector body under the braid.
2.3 Slide the ferrule on the braid. *(In direction F).*

3



3.1 Crimp the ferrule with crimping tool.
3.2 Solder inner conductor.

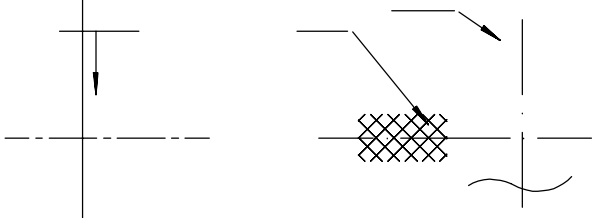
4



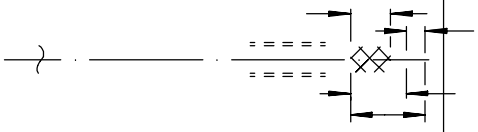
4.1 Screw the nut into the body.

ASSEMBLY INSTRUCTIONS

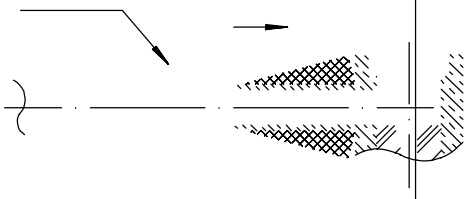
M 26



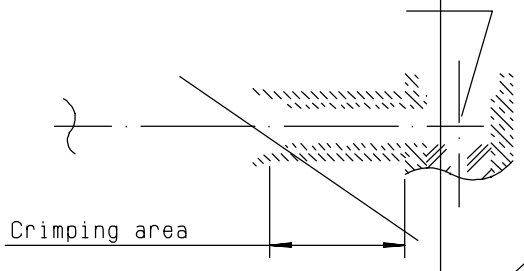
1



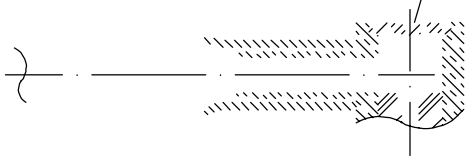
2



3

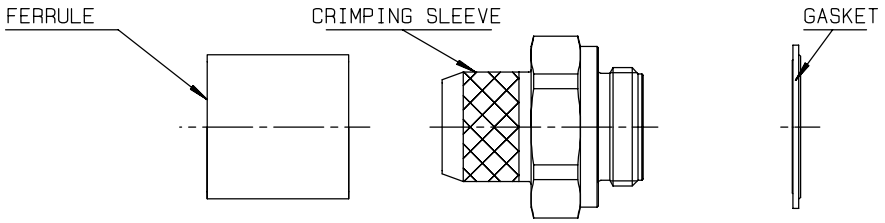


4



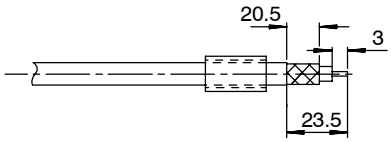
ASSEMBLY INSTRUCTIONS

M 27



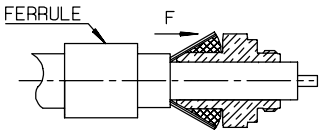
CONNECTORS	Crimping tool		Torque wrench	Recommended coupling torque
	Dies included	**MIL standard R282 293 000 (M22520/5-01) + Dies**		
R280 651 030 **R280 651 230**	R282 223 000 Hex : 5.41	R282 235 011 (M22520/5-11)	R282 303 220	950 N.cm
R280 663 030 **R280 664 030**	R282 231 000 Hex : 10.54	R282 235 116 (Y116 Daniels)		

1



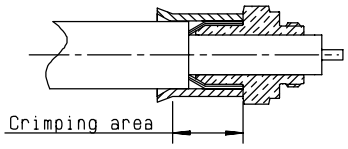
1.1 Slide ferrule onto the cable.
1.2 Strip the cable.

2



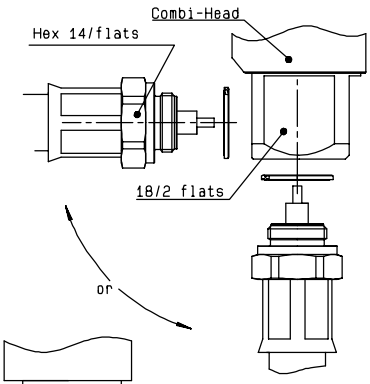
2.1 Fan the braid.
2.2 Push the sleeve under the braid.
2.3 Slide the ferrule over the braid. (in direction F).

3



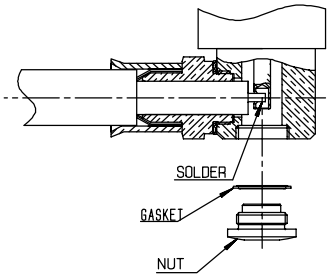
3.1 Crimp the ferrule

4



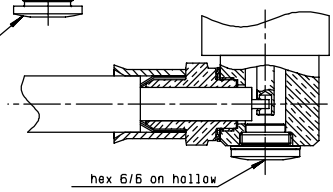
4.1 Mount the metalic gasket onto the crimping sleeve.
4.2 Screw the combi-head on the cable sub-assembly.

5



5.1 Solder the inner conductor onto the combi-head centre contact.

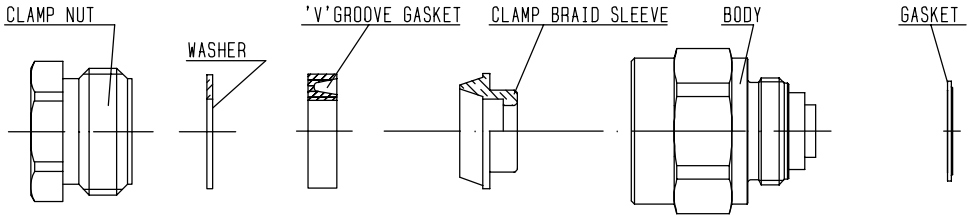
6



6.1 Mount the metallic gasket onto the nut and screw the sub-assembly onto the combi-head body.

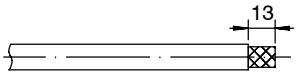
ASSEMBLY INSTRUCTIONS

M 28



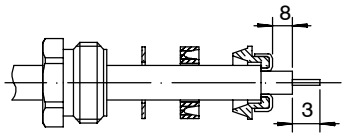
CONNECTORS	Torque wrench	Recommended coupling torque
R280 008 030	R280 303 220	950 N.cm

1



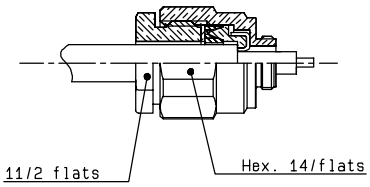
1.1 Strip the cable .

2



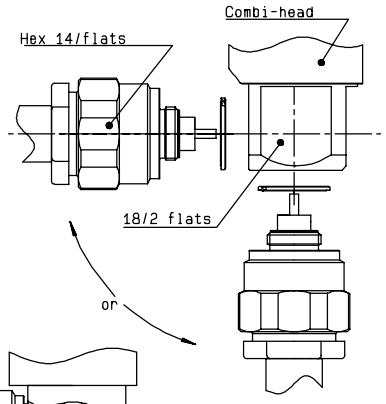
2.1 Slide the clamp nut, the washer and the 'V' groove gasket onto the cable .
2.2 Slide clamp braid sleeve over braid .
2.3 Fold back braid and trim off surplus braid .
2.4 Trim back dielectric as shown .

3



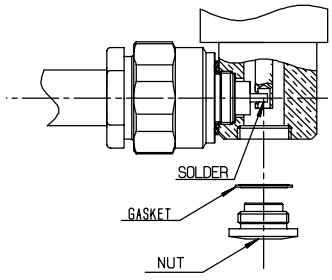
3.1 Screw sub-assembly into the tip body.(Recommended coupling torque 450 N.cm)

4



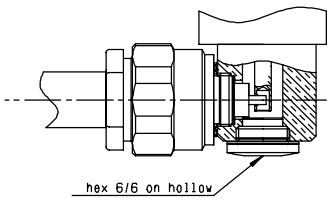
4.1 Mount the metalic gasket onto the tip.
4.2 Screw the combi-head on the cable sub-assembly.

5



5.1 Solder the inner conductor onto the combi-head centre contact.

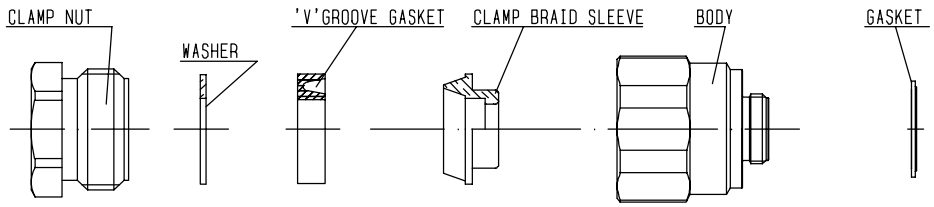
6



6.1 Mount the metallic gasket onto the nut and screw the sub-assembly onto the combi-head body.

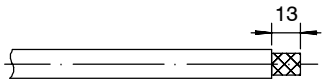
ASSEMBLY INSTRUCTIONS

M 29



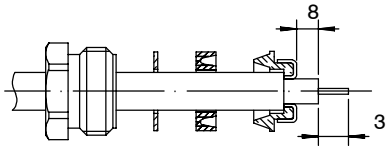
CONNECTORS	Torque wrench	Recommended coupling torque
R280 017 030	R280 303 220	950 N.cm

1



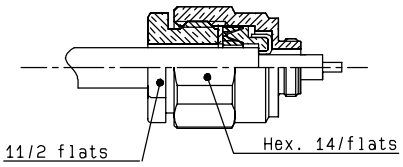
1.1 Strip the cable .

2



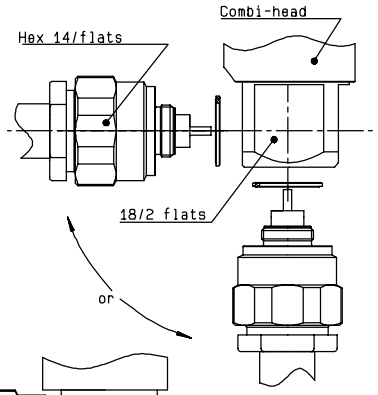
2.1 Slide the clamp nut, the washer and the 'V' groove gasket onto the cable .
2.2 Slide clamp braid sleeve over braid .
2.3 Fold back braid and trim off surplus braid .
2.4 Trim back dielectric as shown .

3



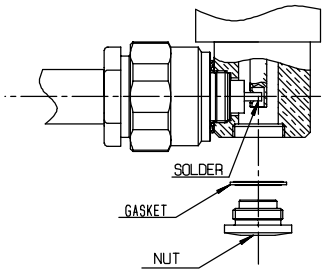
3.1 Screw sub-assembly into the tip body (Recommended coupling torque 800 N.cm)

4



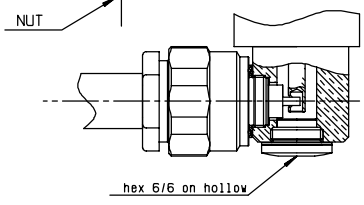
4.1 Mount the metalic gasket onto the tip.
4.2 Screw the combi-head on the cable sub-assembly.

5



5.1 Solder the inner conductor onto the combi-head centre contact.

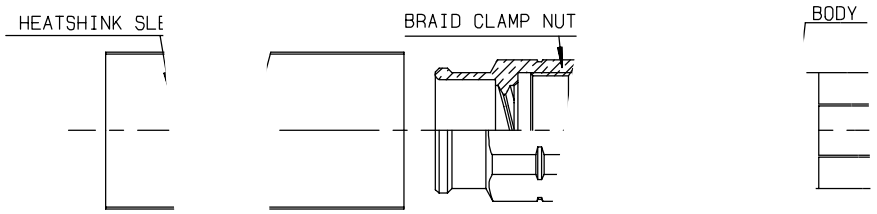
6



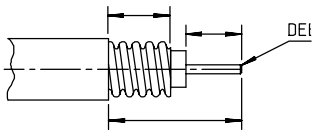
6.1 Mount the metallic gasket onto the nut and screw the sub-assembly onto the combi-head body.

ASSEMBLY I/ ONS

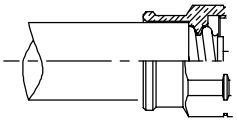
V| 30



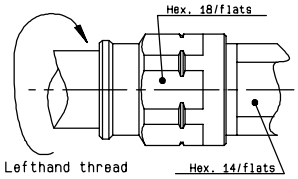
1



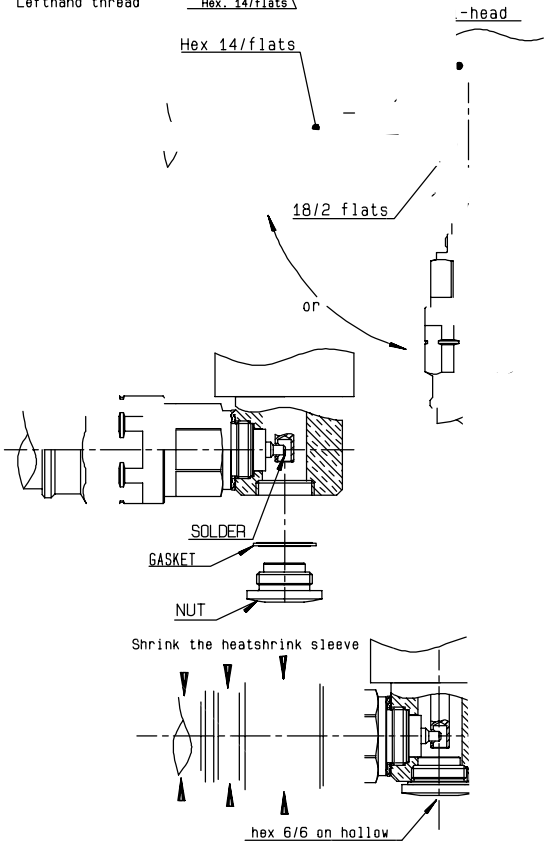
2



3



4

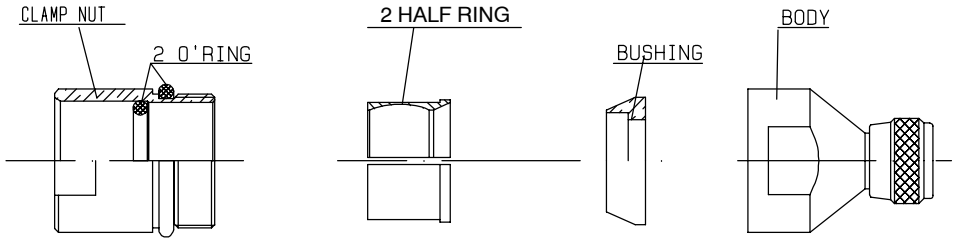


Solder the inner conductor onto the combi-head centre contact.

Mount the metallic gasket onto the nut and screw the sub-assembly onto the combi-head body.
Shrink the heatshrink sleeve.

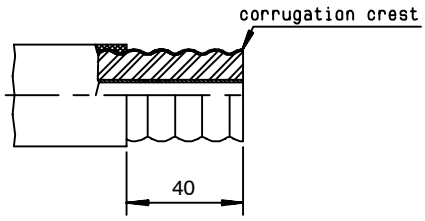
ASSEMBLY INSTRUCTIONS

M 32



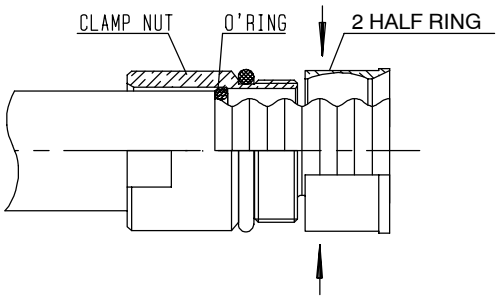
CONNECTORS	**R161 033 120W** **R161 231 120W**

1



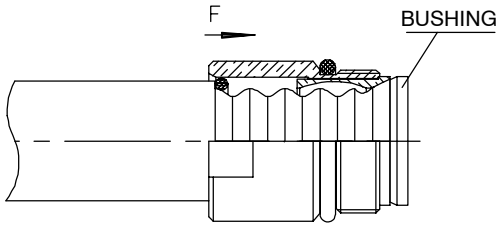
1.1 Strip the cable.
1.2 Cut the external conductor and dielectric on top of the wave as shown.
1.3 Deburr outer conductor and make a .04 chamfer on center conductor.

2



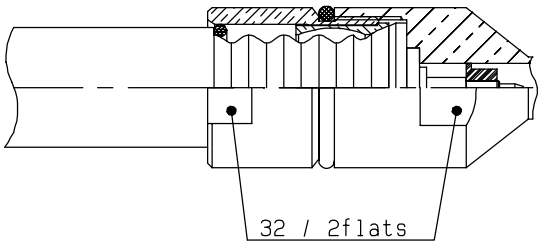
2.1 Slide the clamp nut until it bottoms the jacket
2.2 Assemble the two half ring in the bottom of the wave of the outer conductor.

3



3.1 Slide the bushing under the external conductor.
3.2 Slide back the clamp nut onto the two half ring in direction F.

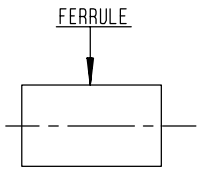
4

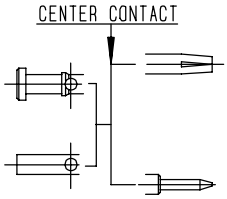


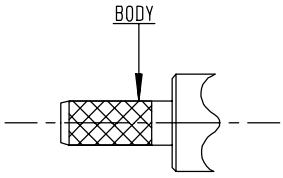
4.1 Screw sub-assembly into the connector body.
(recommended coupling torque 70.8 in lb - 800Ncm)

ASSEMBLY INSTRUCTIONS

M 33

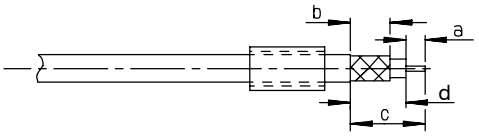






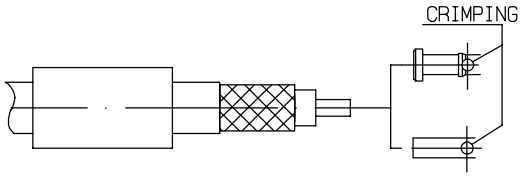
CONNECTORS	stripping length a	b	c	d	hex. Dim. H	center contact crimping tool dies included	center contact crimping tool MIL standard R282 293 000 (M22520/5-01) + dies	ferrule crimping tool dies included	ferrule crimping tool MIL standard R282 293 000 (M22520/5-01) + dies
R162 084 000 **R162 184 000**	4.5	8	14	9.5	1.73-6.48	R282 223 000	R282 235 011 (M22520/5-11)	R282 223 000	R282 235 013 (M22520/5-13)
R162 239 000 **R162 335 000**	5			9					
R162 075 000 **R162 088 000** **R162 185 000** **R162 187 000** **R162 241 000** **R162 243 000** **R162 336 000** **R162 339 000**	4.5	7.5	17	12.5	1.73-10.54			R282 231 000	R282 235 116 (Y116 DANIELS)

1



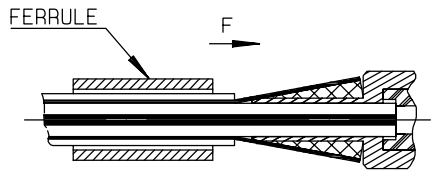
1.1 Slide the ferrule onto the cable.
1.2 Strip the cable

2



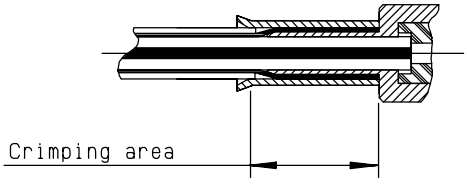
2.1 Slide center contact on until it bottoms against cable dielectric.
2.2 Crimp the center contact.

3



3.1 Fan the braid.
3.2 Slide the cable into the body until it bottoms against insulator.
3.3 Slide the ferrule over the braid *(In direction F)*.

4



4.1 Crimp the ferrule.
4.2 Cut the excess of braid if necessary.

DIMENSIONS OF APPLICABLE CABLES

CABLE DIMENSION REFERENCE CHART
The following tables are presented as a convenient reference only. For detailed specifications, refer to the relevant standard or cable manufacturer's specifications. All dimensions are nominal unless otherwise specified.

CABLE	IMP NOM. Ω	DIMENSIONS inch (mm)					CABLE GROUPE inch (mm)/Ω
		CORE		DIELECTRIC	SCREEN DIA. + numb.	JACKET	
		Composition	DIA nom.				
FLEXIBLE AND SEMI-RIGID CABLES MIL-C-17-F and LMR CABLES							
RG 6A/U	75	single core	.028 (0,72)	.185 (4,70)	.263 (6,70) (D)	.332 (8,43)	.315 (8)/75 D
RG 11A/U	75	7 X 0,40	.047 (1,20)	.285 (7,25)	.340 (8,64) (S)	.405 (10,29)	.394 (10)/75 S
RG 58C/U	50	19 X 0,18	.035 (0,89)	.116 (2,95)	.150 (3,81) (S)	.195 (4,95)	.197 (5)/50 S
RG 59B/U	75	single core	.022 (0,57)	.146 (3,71)	.191 (4,85) (S)	.242 (6,15)	.236 (6)/75 S
RG 62B/U	93	single core	.025 (0,64)	.146 (3,71)	.191 (4,85) (S)	.242 (6,15)	.236 (6)/93 S
RG 71B/U	93	single core	.025 (0,64)	.146 (3,71)	.208 (5,28) (D)	.245 (6,22)	.236 (6)/93 D
RG 141A/U	50	single core	.039 (0,99)	.116 (2,95)	.146 (3,71) (S)	.190 (4,83)	.197 (5)/50 S
RG 142B/U	50	single core	.037 (0,94)	.116 (2,95)	.171 (4,34) (D)	.195 (4,95)	.197 (5)/50 D
RG 174A/U	50	7 X 0,16	.019 (0,48)	.060 (1,52)	.088 (2,24 (S)	.110 (2,79)	.102 (2,6)/50 S
RG 178B/U	50	7 X 0,10	.012 (0,30)	.033 (0,84)	.054 (1,37) (S)	.071 (1,80)	.079 (2)/50 S
RG 179B/U	75	7 X 0,10	.012 (0,30)	.063 (1,60)	.083 (2,13) (S)	.010 (2,54)	.102 (2,6)/75 S
RG 188A/U	50	7 X 0,18	.020 (0,51)	.060 (1,52)	.081 (2,06) (S)	.110 (2,79)	.102 (2,6)/50 S
RG 212/U	50	single core	.056 (1,41)	.185 (4,70)	.210 (5,34) (D)	.331 (8,43)	.315 (8)/50 D
RG 213/U	50	7 X 0,75	.089 (2,25)	.285 (7,25)	.340 (8,64) (S)	.405 (10,29)	.394 (10)/50 S
RG 214/U	50	7 X 0,75	.089 (2,25)	.285 (7,25)	.360 (9,14) (D)	.425 (10,80)	.433 (11)/50 D
RG 216/U	75	7 X 0,40	.047 (1,20)	.285 (7,25)	.360 (9,15) (D)	.425 (10,80)	.433 (11)/75 D
RG 217/U	50	single core	.106 (2,69)	.370 (9,40)	.463 (11,76) (D)	.545 (13,84)	.551 (14)/50 D
RG 218/U	50	single core	.195 (4,95)	.680 (17,27)	.760 (19,30) (S)	.870 (22,10)	.866 (22)/50 S
RG 316/U	50	7 x 0,17	.020 (0,51)	.060 (1,52)	.081 (2,06) (S)	.098 (2,49)	.102 (2,6)/50 S
RD 316	50	7 x 0,17	.020 (0,51)	.060 (1,52)	.087 (2,22) (D)	.110 (2,80)	.102 (2,6)/50 D
RG 400	50	19 x 0,2	.039 (1)	.116 (2,95)	.169 (4,30) (D)	.197 (5)	.197 (5)/50 D
RG 393	50	7 x 0,8	.094 (2,4)	.285 (7,25)	.346 (8,80) (D)	.390 (9,9)	.394 (10)/50 D
RG 401/U	50	single core	.064 (1,63)	.209 (5,31)	--	.250 (6,35)	.250"
RG 402/U	50	single core	.036 (0,92)	.117 (2,98)	--	.141 (3,58)	.141"
RG 405/U	50	single core	.020 (0,51)	.066 (1,68)	--	.087 (2,20)	.085"
LMR 200	50	single core	.044 (1,12)	.116 (2,95)	.144 (3,66) (S)	.197 (5)	.197 (5)/50 S
LMR 400	50	single core	.109 (2,77)	.285 (7,24)	.320 (8,13) (S)	.405 (10,3)	.405 (10,3)/50 S
LMR 600	50	single core	.176 (4,47)	.455 (11,56)	.490 (12,45) (S)	.591 (15)	.591 (15,2)/50 S
FLEXIBLE CABLES NF-C 93-550 / SEMI-RIGID CABLES NF-C 93-551							
KX 3B	50	7 X 0,16	.019 (0,48)	.059 (1,50)	.088 (2,23) (S)	.10 (2,54)	.102 (2,6)/50 S
KX 4	50	7 X 0,75	.089 (2,25)	.285 (7,25)	.340 (8,64) (S)	.405 (10,29)	.394 (10)/50 S
KX 6A	75	7 X 0,20	.024 (0,60)	.146 (3,70)	.191 (4,85) (S)	.240 (6,10)	.236 (6)/75 S
KX 8	75	7 X 0,40	.047 (1,20)	.285 (7,25)	.340 (8,64) (S)	.405 (10,29)	.394 (10)/75 S
KX 13	50	7 X 0,75	.089 (2,25)	.285 (7,25)	.360 (9,14) (D)	.425 (10,80)	.433 (11)/50 D
KX 14	50	single core	.197 (5,00)	.681 (17,30)	.760 (19,30) (S)	.870 (22,10)	.866 (22)/50 S
KX 15	50	19 X 0,18	.035 (0,89)	.116 (2,95)	.150 (3,81) (S)	.195 (4,95)	.197 (5)/50 S
KX 21A	50	7 X 0,10	.012 (0,30)	.034 (0,87)	.054 (1,37) (S)	.071 (1,80)	.79 (2)/50 S
KX 22A	50	7 X 0,18	.020 (0,51)	.059 (1,50)	.081 (2,06) (S)	.098 (2,50)	.102 (2,6)/50 S
KX 22D	50	7 X 0,17	.020 (0,51)	.059 (1,50)	.098 (2,50) (D)	.118 (3,00)	.102 (2,6)/50 D
KX 23	50	7 X 0,34	.040 (1,02)	.116 (2,95)	.171 (4,34) (D)	.200 (5,10)	.197 (5)/50 D
KX 24	50	7 X 0,80	.094 (2,40)	.285 (7,25)	.360 (9,14) (D)	.429 (10,90)	.433 (11)/50 D
KX 25	75	7 X 0,23	.028 (0,71)	.146 (3,70)	.176 (4,47) (S)	.232 (5,90)	.236 (6)/75 S
KX 30	93	single core	.025 (0,64)	.146 (3,70)	.191 (4,85) (S)	.242 (6,15)	.236 (6)/93 S
KX 52	75	single core	.025 (0,64)	.146 (3,70)	.185 (4,70) (S)	.240 (6,10)	.236 (6)/75 S
KS 1	50	single core	.020 (0,515)	.066 (1,67)	--	.086 (2,18)	.085"
KS 2	50	single core	.036 (0,915)	.118 (3,00)	--	.140 (3,58)	.141"
KS 3	50	single core	.064 (1,63)	.210 (5,33)	--	.250 (6,35)	.250"
CORRUGATED CABLES 50 Ω							
HELIAX FSJ1-50A			.075 (1,90)	.185 (4,70)	.252 (6,40)	.291 (7,40)	1/4"/50 spiral
HELIAX FSJ2-50			.110 (2,8)	.275 (7)	.375 (9,50)	.415 (10,50)	3/8"/50 spiral
HELIAX FSJ4-50B			.142 (3,60)	.342 (8,70)	.480 (12,20)	.520 (13,20)	1/2"/50 spiral
HELIAX LDF5-50A			.354 (9)	.929 (23,6)	1.016 (25,8)	1.102 (28)	7/8"/50 annulat.
GEDELEX 3,7/50 CCES - 1/2"			.140 (3,56)	.331 (8,40)	.472 (12,00)	.531 (13,50)	1/2"/50 spiral
GEDELEX 2,3/50 CC - 1/4"			.094 (2,40)	.236 (6,00)	.295 (7,50)	.394 (10,00)	1/4"/50 annulat.
HELIAX LDF4-50A			.189 (4,80)	.457 (11,60)	.551 (14,00)	.630 (16,00)	1/2"/50 annulat.
GEDELEX 4,8/50 CCFP - 1/2"			.189 (4,80)	.468 (11,90)	.543 (13,80)	.650 (16,50)	1/2"/50 annulat.
ETHERNET CABLES 50 Ω							
ACOME P 1977 A *(BULL approval)*			.085 (2,17)	.242 (6,15)	.325 (8,26) (D)	.406 (10,30)	Ethernet
BELDEN 9880			.085 (2,17)	.247 (6,27)	.315 (8,00) (D)	.405 (10,28)	Ethernet
FILOTEX 63227			.085 (2,17)	.252 (6,40)	.327 (8,30) (D)	.406 (10,30)	Ethernet
BICC H8 112			.085 (2,17)	.250 (6,35)	.326 (8,29) (D)	.406 (10,30)	Ethernet
PRECICABLE CY 120			.094 (2,40)	.252 (6,40)	.323 (8,20) (D)	.406 (10,30)	Ethernet
TIMES A A4779			.087 (2,20)	.242 (6,14)	.370 (9,40) (D)	.409 (10,40)	Ethernet

(**S**) : 1 braid ; (**D**) : 2 braids

CROSS REFERENCES

UG / RADIALL / Page

UG 21 E/U	R161 020 000	15
UG 22 E/U	R161 270 000	21
UG 23 E/U	R161 220 000	19
UG 27 C/U	R161 771 000	30
UG 28 A/U	R161 782 000	30
UG 29 B/U	R161 705 000	30
UG 30 D/U	R161 753 000	30
UG 57 B/U	R161 703 000	30
UG 58 A/U	R161 404 000	28
UG 91 A/U	R162 013 000	44
UG 92 A/U	R162 213 000	45
UG 94 A/U	R162 017 000	44
UG 95 A/U	R162 217 000	45
UG 96 A/U	R162 267 000	46
UG 107 B/U	R161 780 000	30
UG 160 C/U	R161 332 000	23
UG 556 /U	R161 325 000	23
UG 594 /U	R161 168 000	17
UG 680 /U	R161 625 000	29
UG 997 A/U	R161 653 000	29
UG 1095 B/U	R161 256 000	21
UG 1185 A/U	R161 022 000	15
MX 913 /U	R161 853 000	31

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R161 020 000	UG 21 E/U	15
R161 022 000	UG 1185 A/U	15
R161 168 000	UG 594 /U	17
R161 220 000	UG 23 E/U	19
R161 256 000	UG 1095 B/U	21
R161 270 000	UG 22 E/U	21
R161 325 000	UG 556 /U	23
R161 332 000	UG 160 C/U	23
R161 404 000	UG 58 A/U	28
R161 625 000	UG 680 /U	29
R161 653 000	UG 997 A/U	29
R161 703 000	UG 57 B/U	30
R161 705 000	UG 29 B/U	30
R161 753 000	UG 30 D/U	30
R161 771 000	UG 27 C/U	30
R161 780 000	UG 107 B/U	30
R161 782 000	UG 28 A/U	30
R161 853 000	MX 913 /U	31
R162 013 000	UG 91 A/U	44
R162 017 000	UG 94 A/U	44
R162 213 000	UG 92 A/U	45
R162 217 000	UG 95 A/U	45
R162 267 000	UG 96 A/U	46

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93566-KN-1.5	R161 020 000	15
93566-KN-2.5	R161 270 000	21
93566-KN-3.5	R161 220 000	19
93566-KN-4.3	R161 771 000	30
93566-KN-8.1	R161 404 000	28
93566-KN-9.2	R161 780 000	30
93566-KN-15	R161 022 000	15
93566-KN-30	R161 715 000	30

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95000	R162 217 000	45
95006	R161 220 000	19
95022	R161 256 000	21
95026	R162 403 000	47
95027	R161 404 000	28
95027	R161 404 137	28
95027	R161 404 161	28
95029	R161 410 000	27
95033	R162 012 000	44
95043	R161 022 000	15
95055E	R161 841 000	31
95056	R162 267 000	46
95063	R162 017 000	44
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